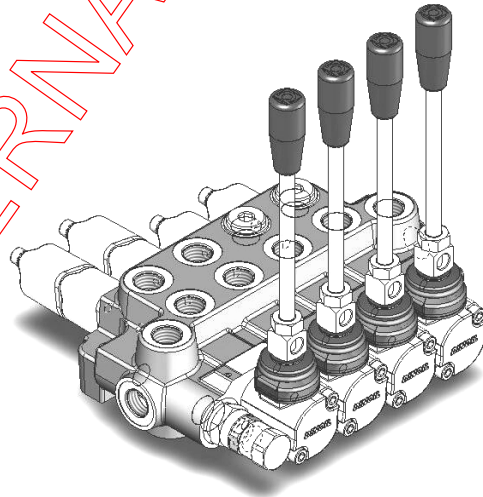


PRODUCT DATA SHEET  
REV.6

Product: (DO6DX---)

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**General features**

Number of sections	<i>From 3 to 6</i>	
Circuit type	<i>Parallel</i>	
Spool diameter	<i>18 mm</i>	<i>0.71 in</i>
Spool O-Ring hardness	<i>60 sh</i>	
Port auxiliary valves	<i>Port relief (VL) and pilot operated (YBD-VBS)</i>	
Carry Over prearrangement (power beyond)	<i>Standard</i>	
Carry Over (power beyond)	<i>Optional</i>	

**Working features**

Following characteristics are influenced by testing conditions. Values are obtained with oil at viscosity of 21 cSt, temperature of 50°C and pressure of 100 bar , double acting spool (circuit 1) and are valid only for standard threads.

Nominal flow rate	<i>45 l/min</i>	<i>11.9 US gpm</i>
Maximum flow rate	<i>55 l/min</i>	<i>14.5 US gpm</i>
Maximum pressure	<i>300 bar</i>	<i>4350 psi</i>
Maximum tank pressure	<i>50 bar</i>	<i>730 psi</i>
Max. internal leakage (A or B => P and T)	<i>8 cm³/min</i>	<i>0.49 in³/min</i>

**Fluid working range**

Fluid	<i>Mineral oil based</i>
Working temperature (*)	<i>-20°C +80°C with NBR seals -20°C +120°C with HNBR seals</i>
Working oil viscosity	<i>From 10 cSt to 100 cSt</i>

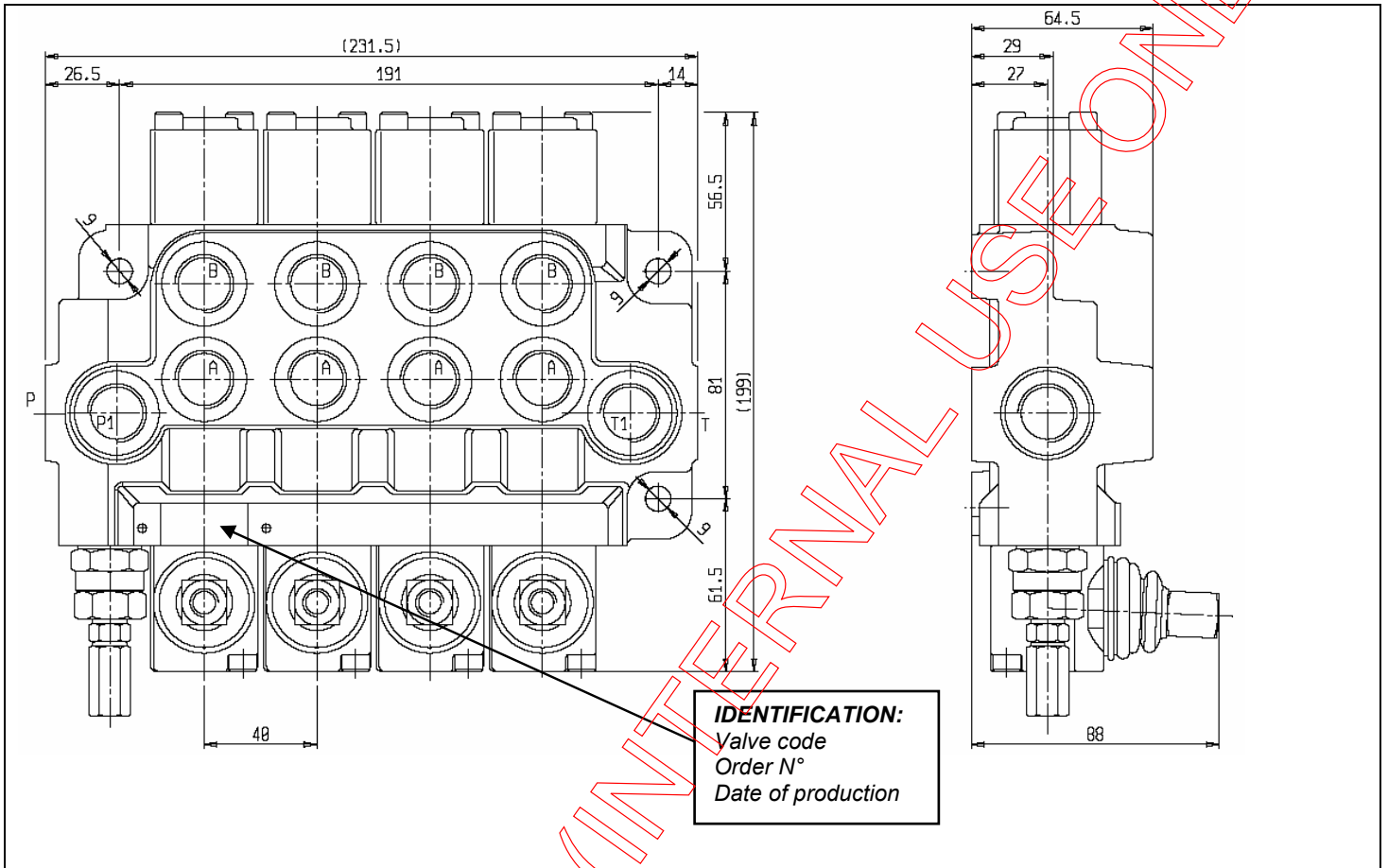
(\*) For different working temperature, fluid or viscosity, please contact our sales department.

NOTE: do not wash the valve with direct water jet.

**Units of measure – conversion factors**

	METRIC	BSP
Length	<i>1 mm = 0,0394 in</i>	<i>1 in = 25,4 mm</i>
Mass	<i>1 kg = 2,205 lb</i>	<i>1 lb = 0,454 kg</i>
Force	<i>1 Nm = 0,102 kgf</i>	<i>1 kgf = 9,807 Nm</i>
Volume	<i>1 l = 0,2200 gal UK</i>	<i>1 gal UK = 4,546 l</i>
	<i>1 l = 0,2642 gal US</i>	<i>1 gal US = 3,785 l</i>
Pressure	<i>1 bar = 100000 Pa</i>	<i>1 Pa = 0,00001 bar</i>
	<i>1 bar = 14,5 psi</i>	<i>1 psi = 0,0689 bar</i>

Overall dimensions



Weights

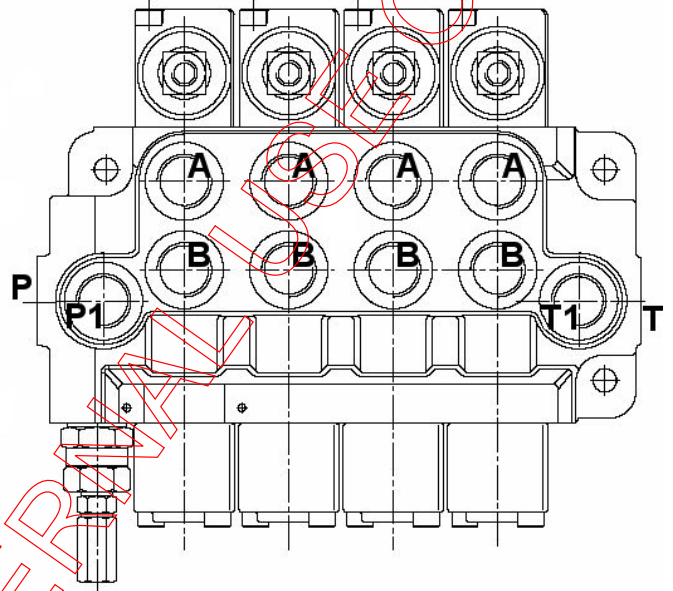
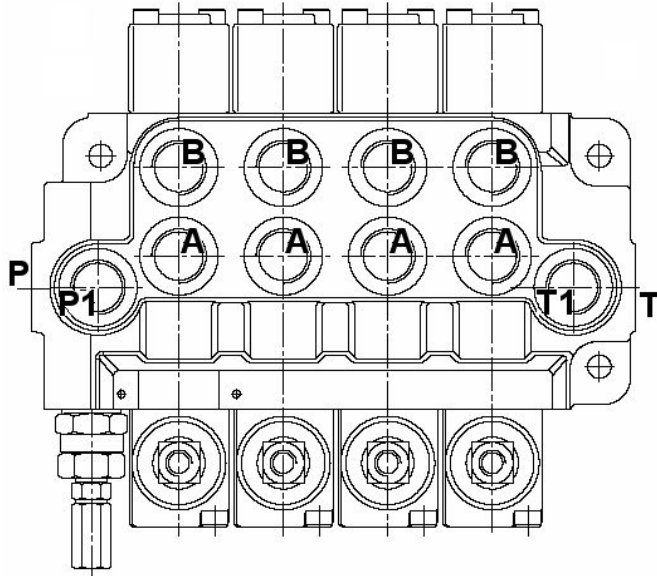
MOD.	L. mm (inch)	Weight Kg (lb)	MOD.	L. mm (inch)	Weight Kg (lb)
DN3	151 (5.94)	7.3 (16.0)	DN5	231 (9.1)	11.5 (25.3)
DN4	191 (7.52)	9.4 (20.7)	DN6	271 (10.67)	13.6 (30.0)

**Inlet side – definition of port A - B**

Port A is defined by the lever side. When valve is right inlet the position of the letter associated to the port is inverted

Left inlet

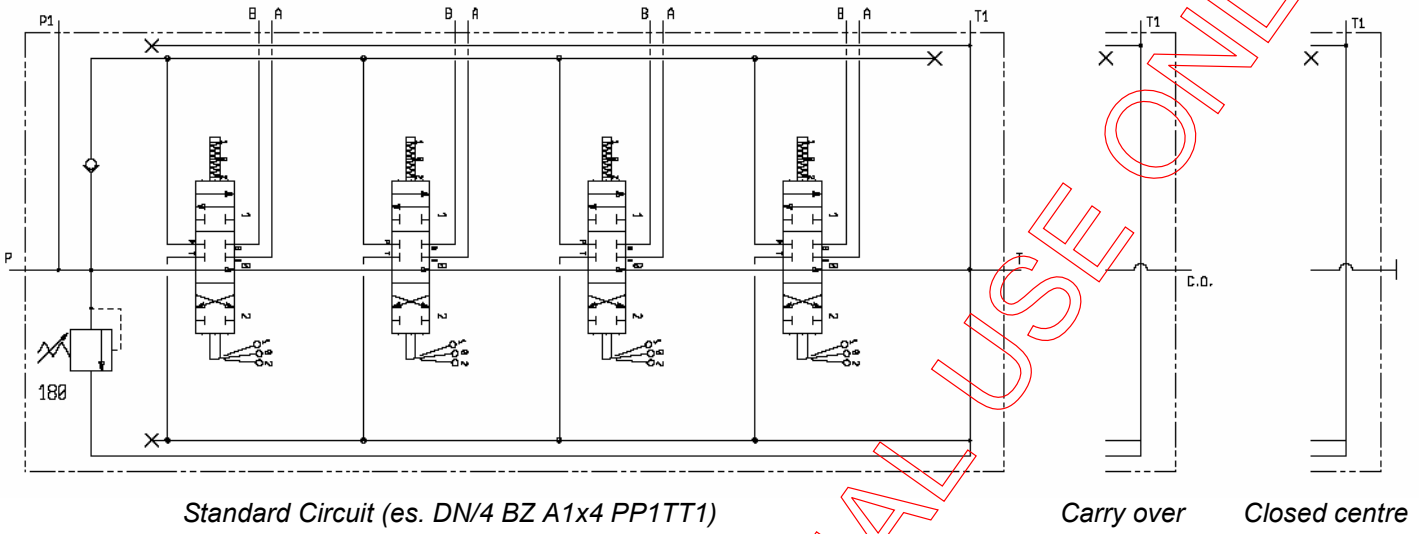
Right inlet



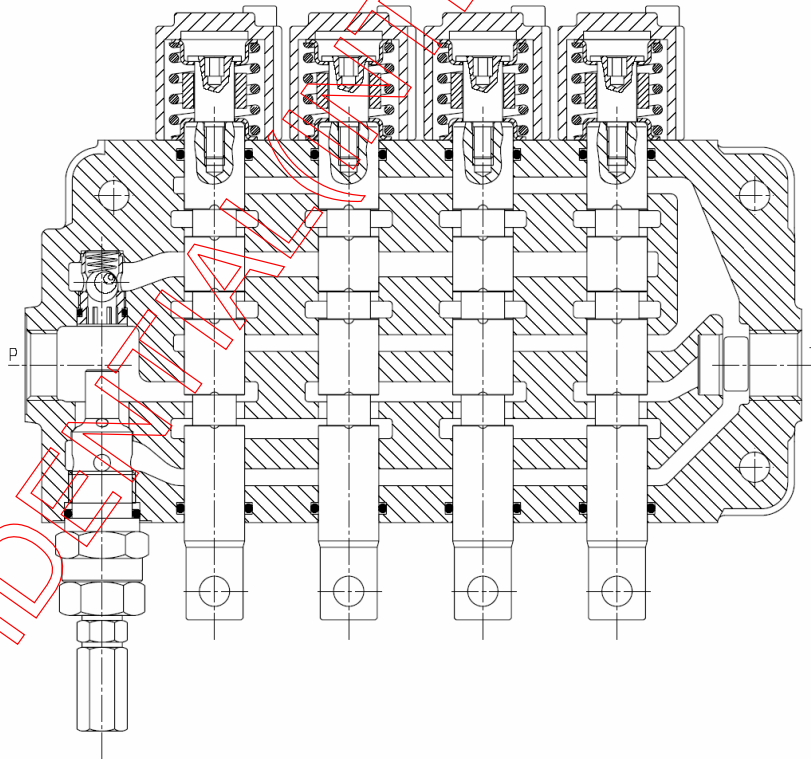
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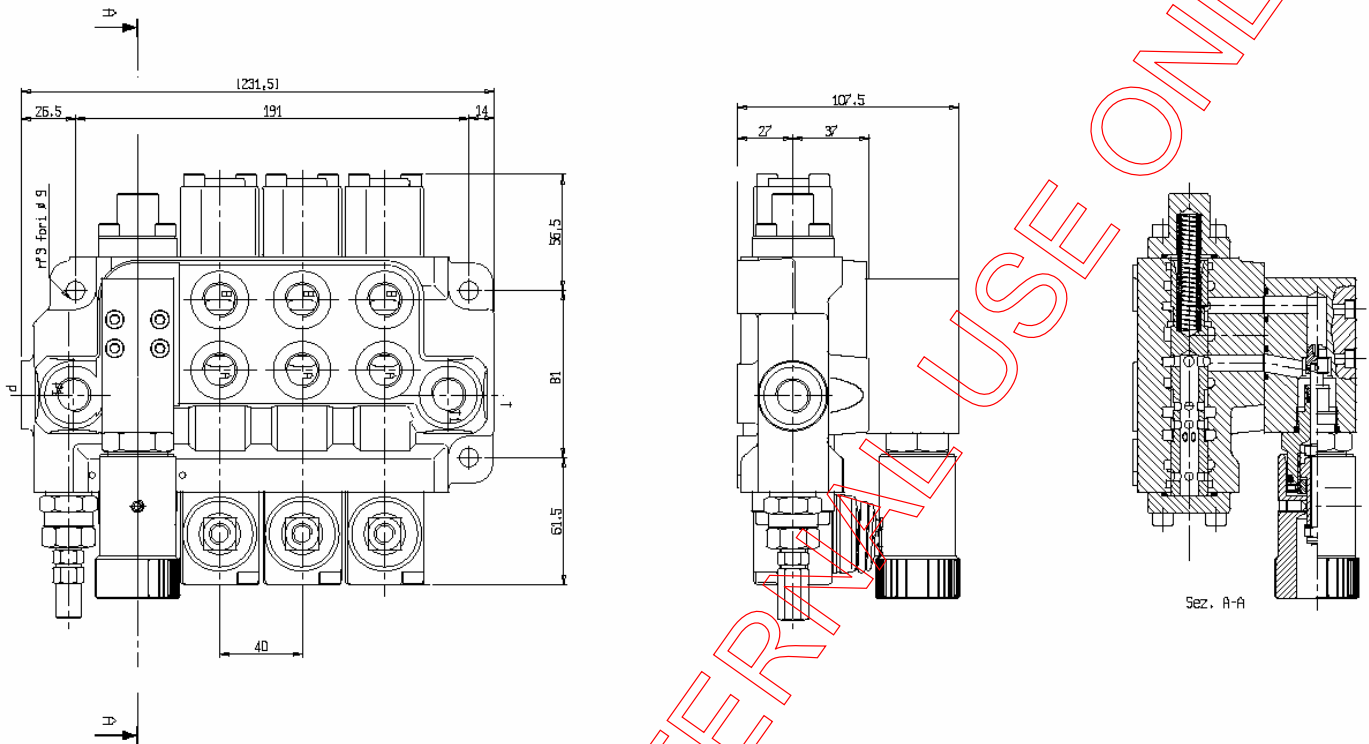
Hydraulic circuits



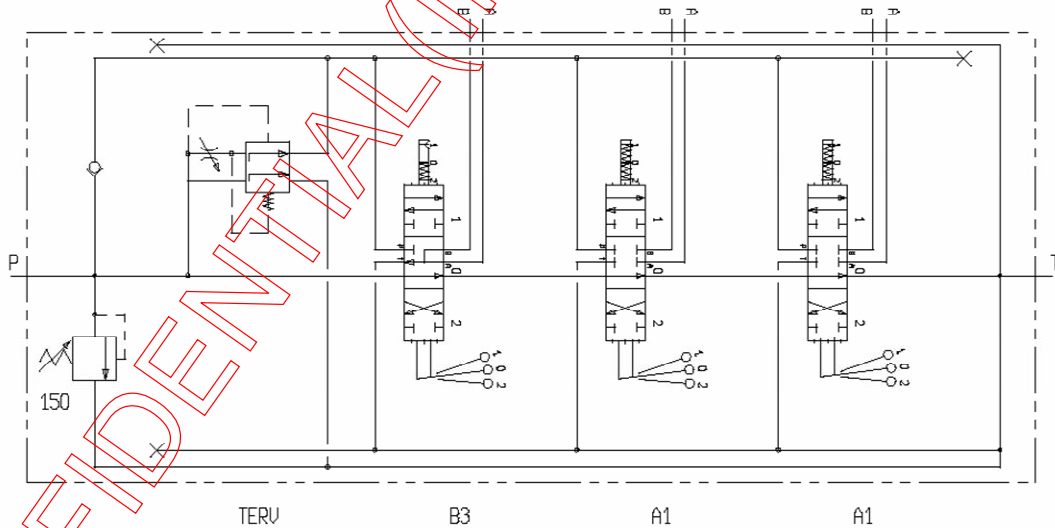
Section



Overall dimensions and section (ERV)



Hydraulic circuits

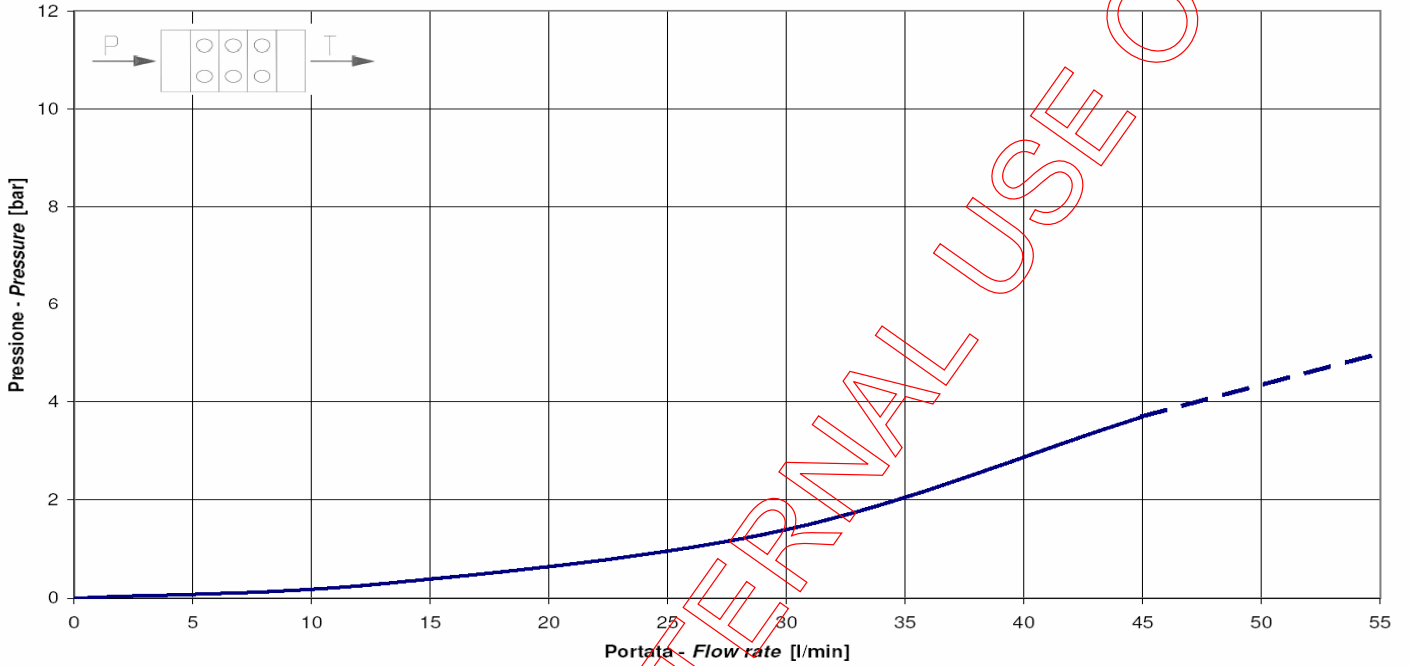


Circuit  
(es. DN4 ERV B3 A1x3 PP1TT1)

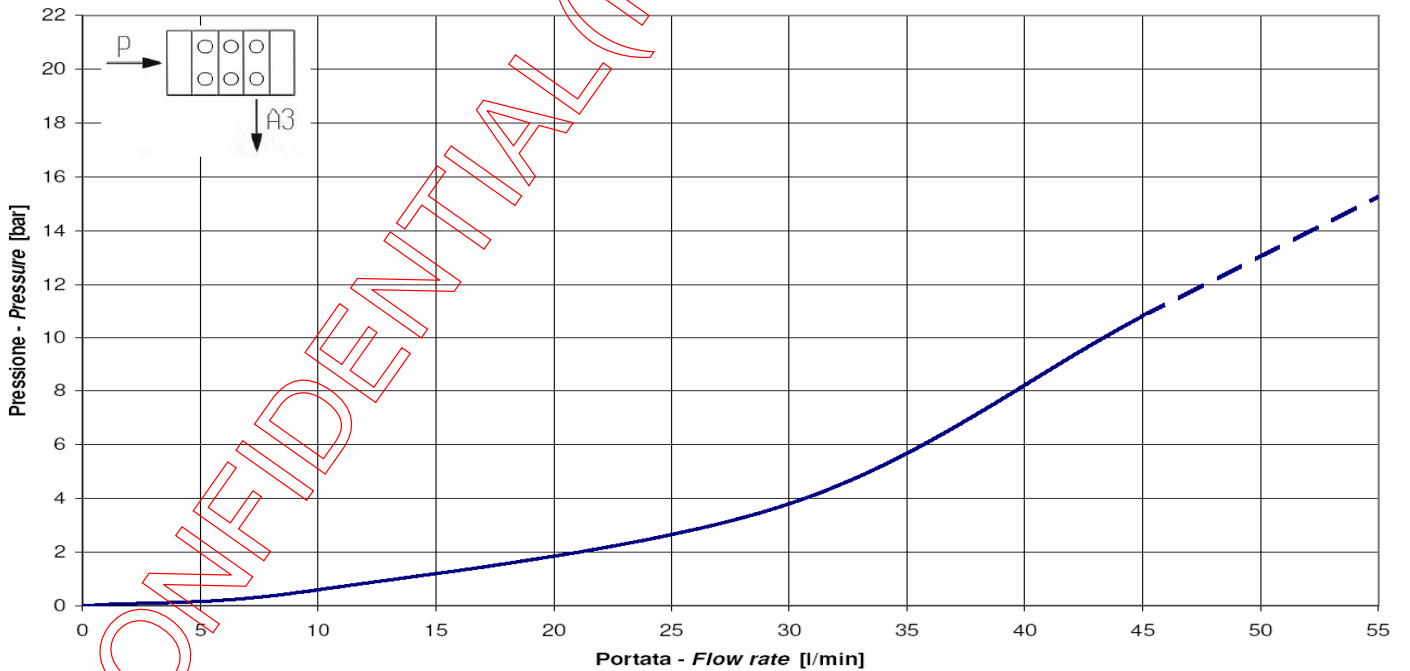
**Pressure drop curves**

All curves are obtained with oil at 21 cSt of viscosity (50°C) and with double acting spool (See test norm DSP01000B).

**P-T DN/3 Spola - Spool 2921XX01000 21cSt**



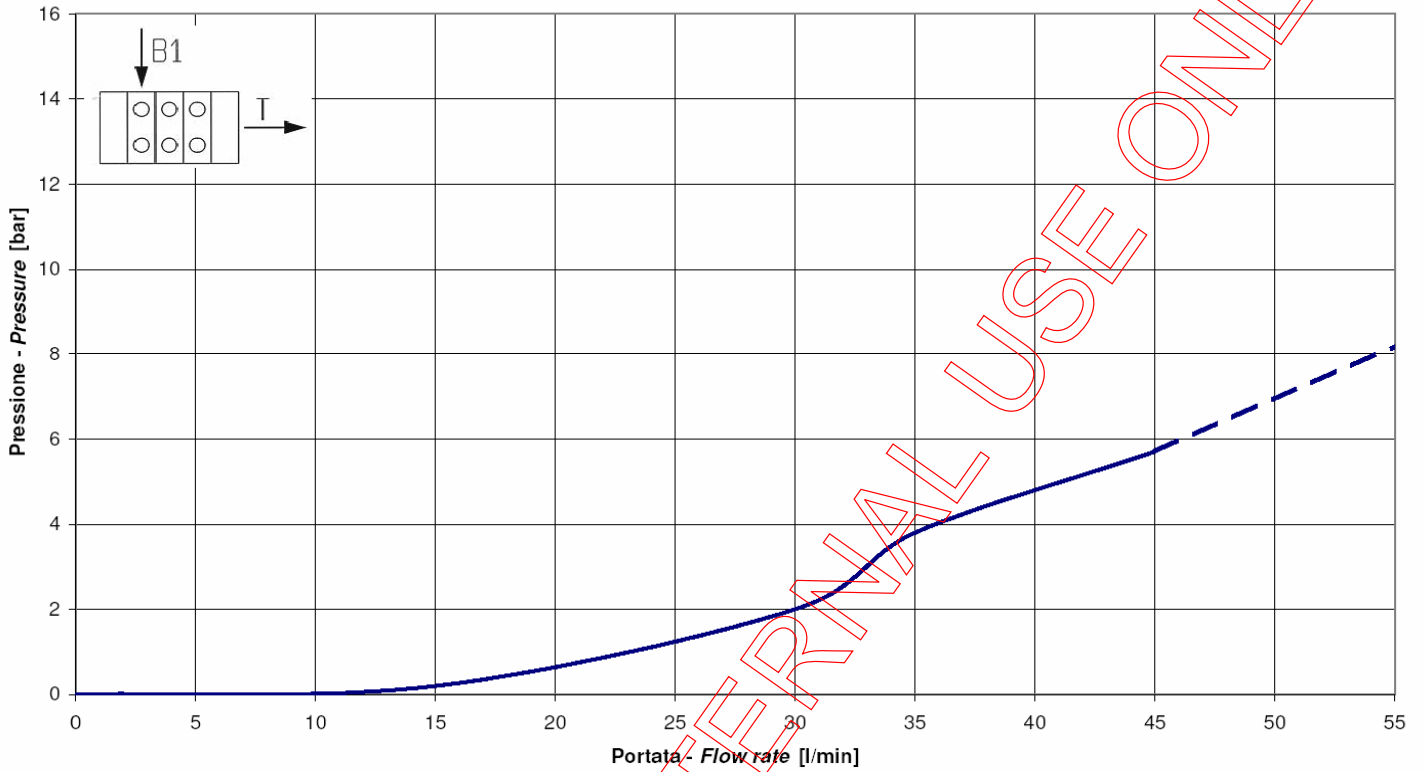
**P-A DN/3 Spola - Spool 2921XX01000 21cSt**



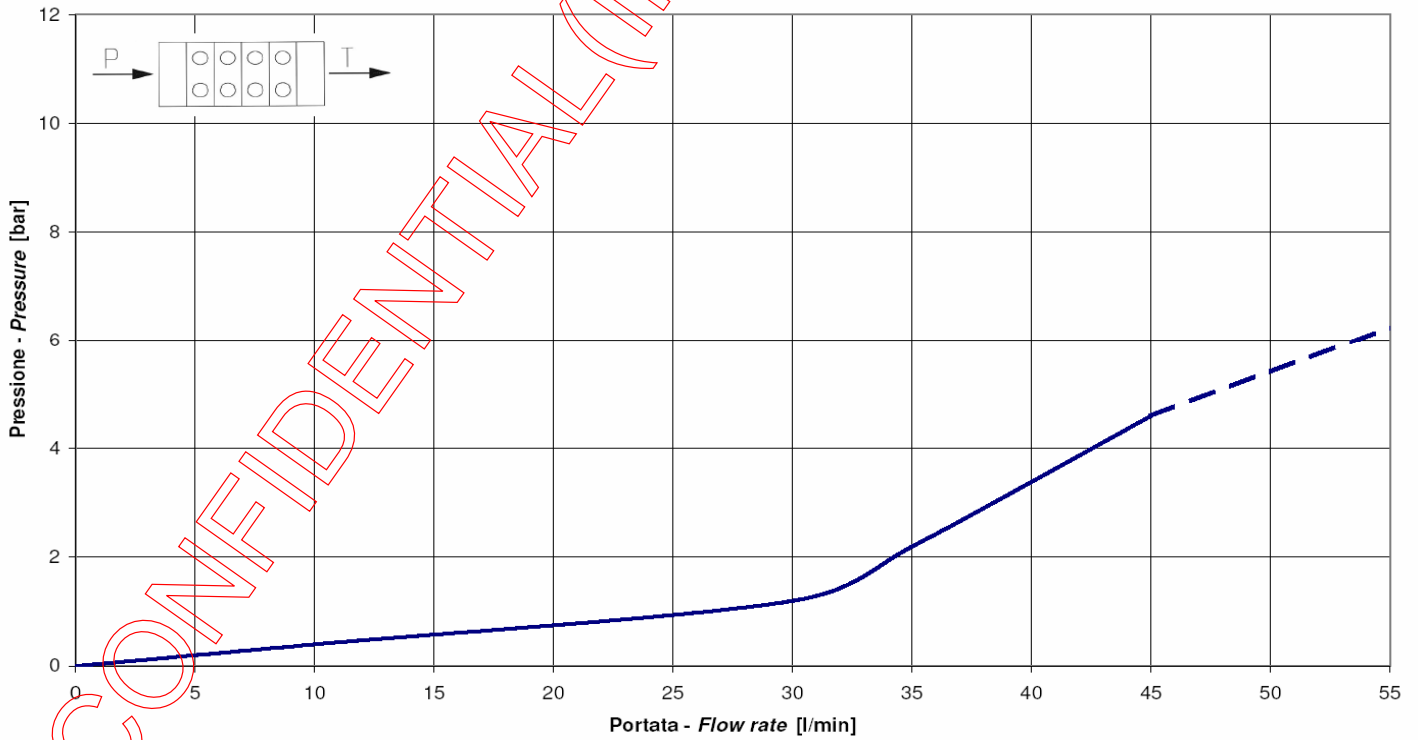




**B-T DN/3 Spola - Spool 2921XX01000 21cSt**



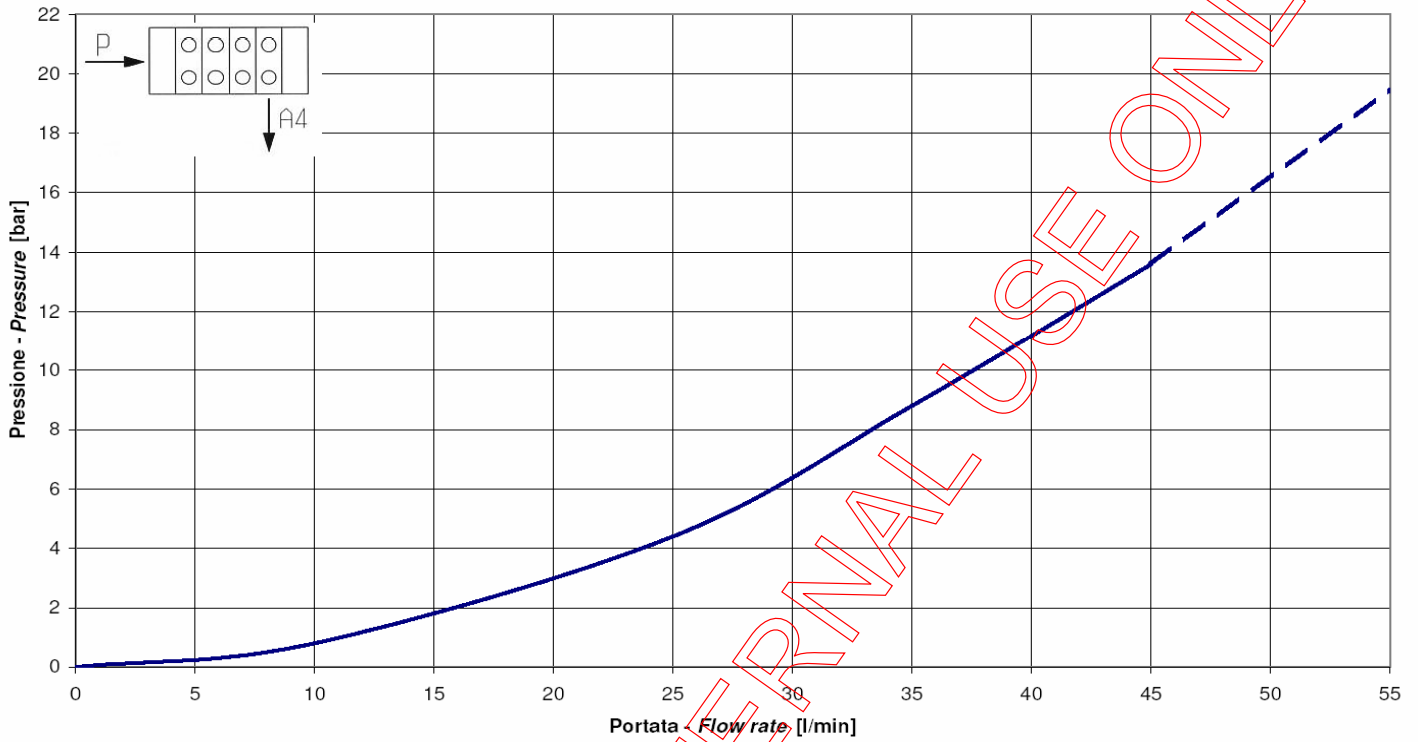
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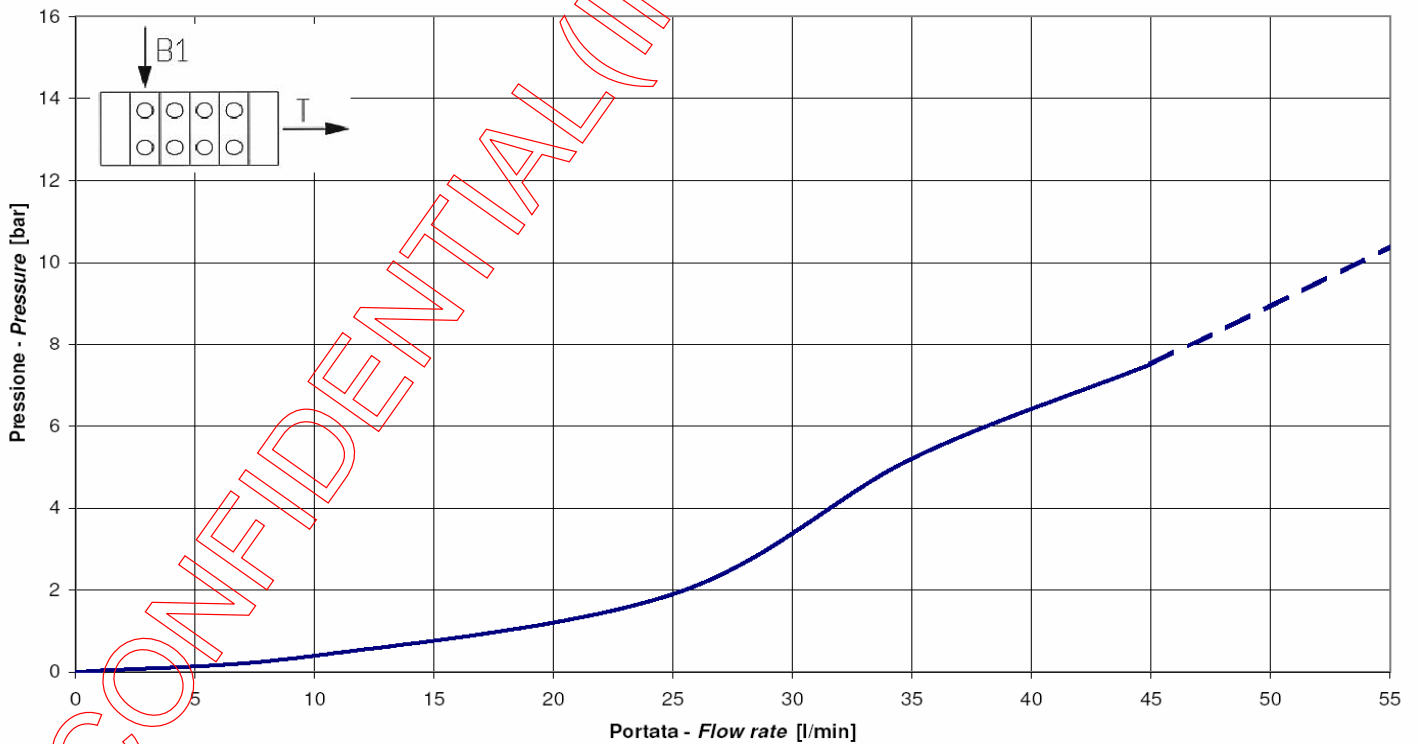




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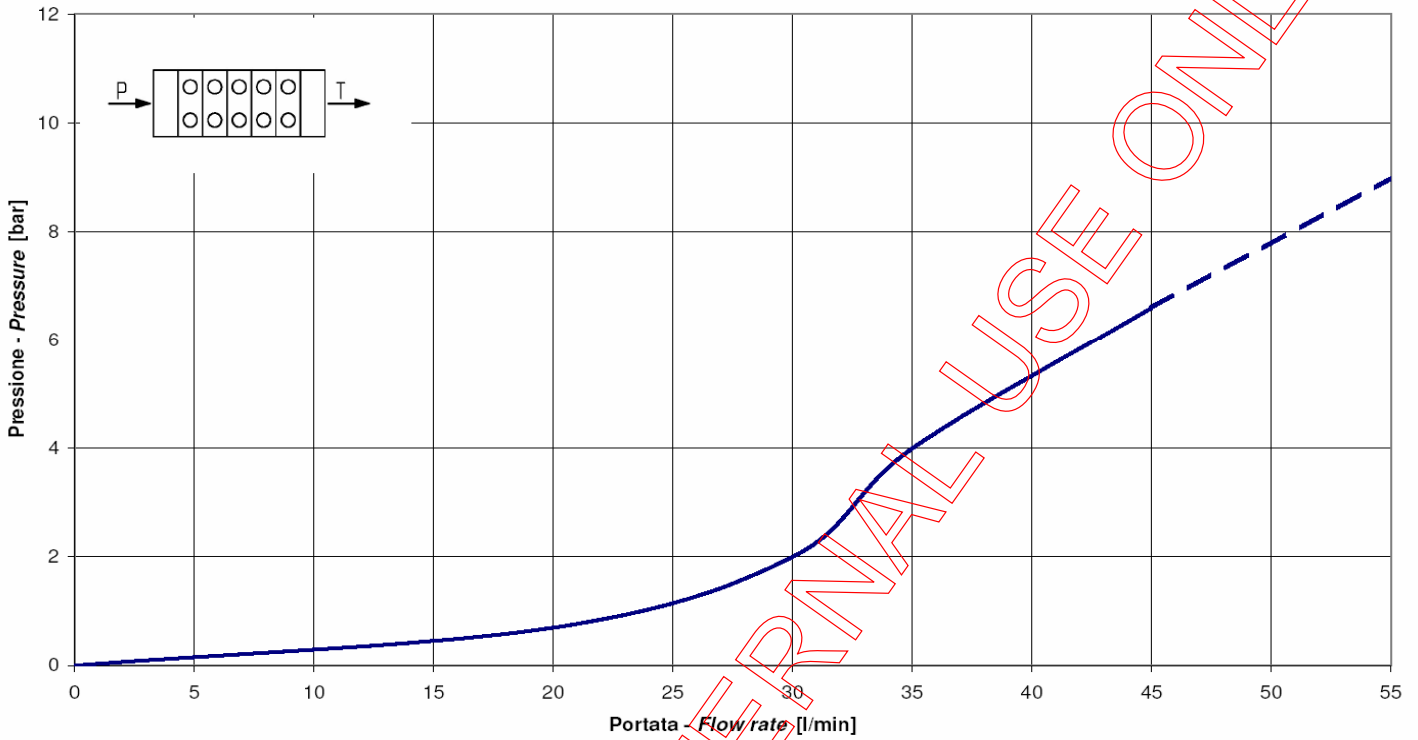


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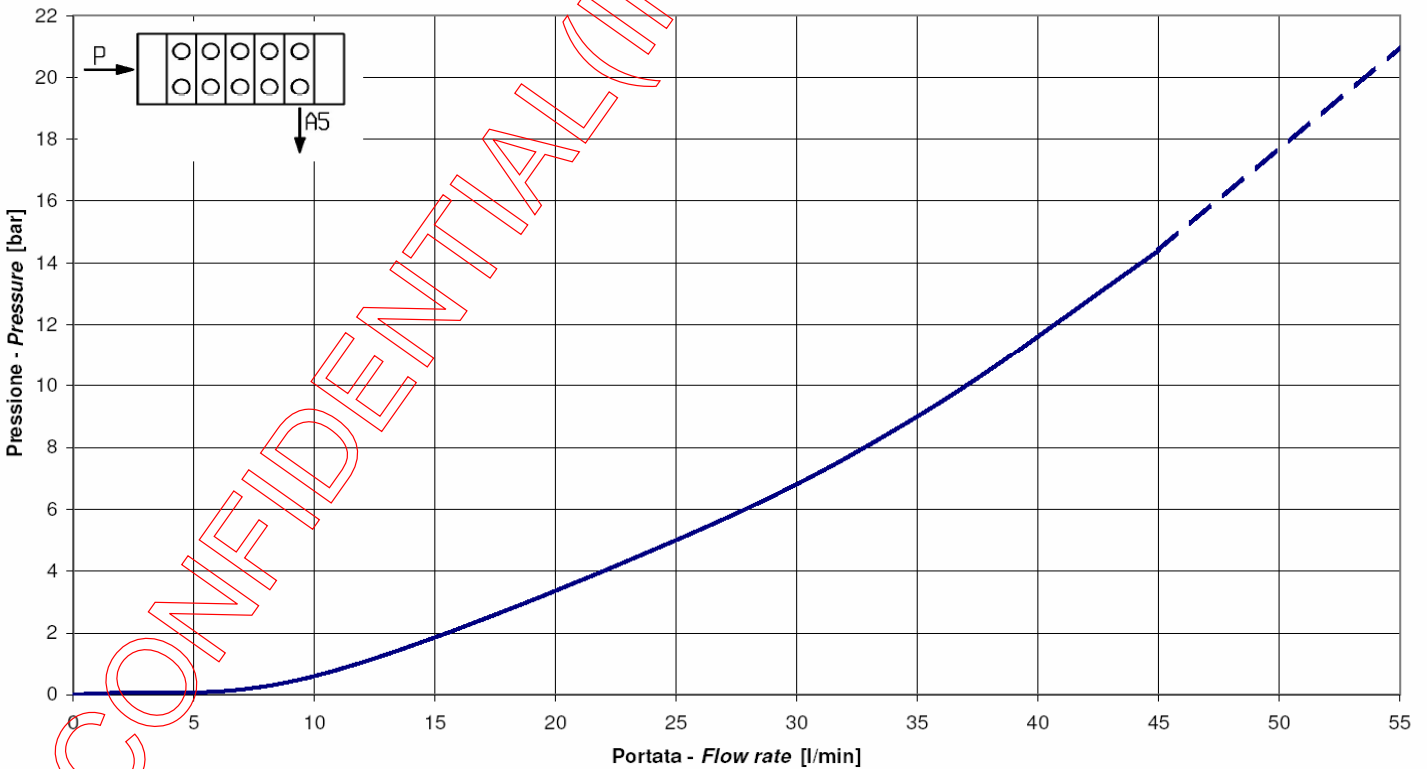




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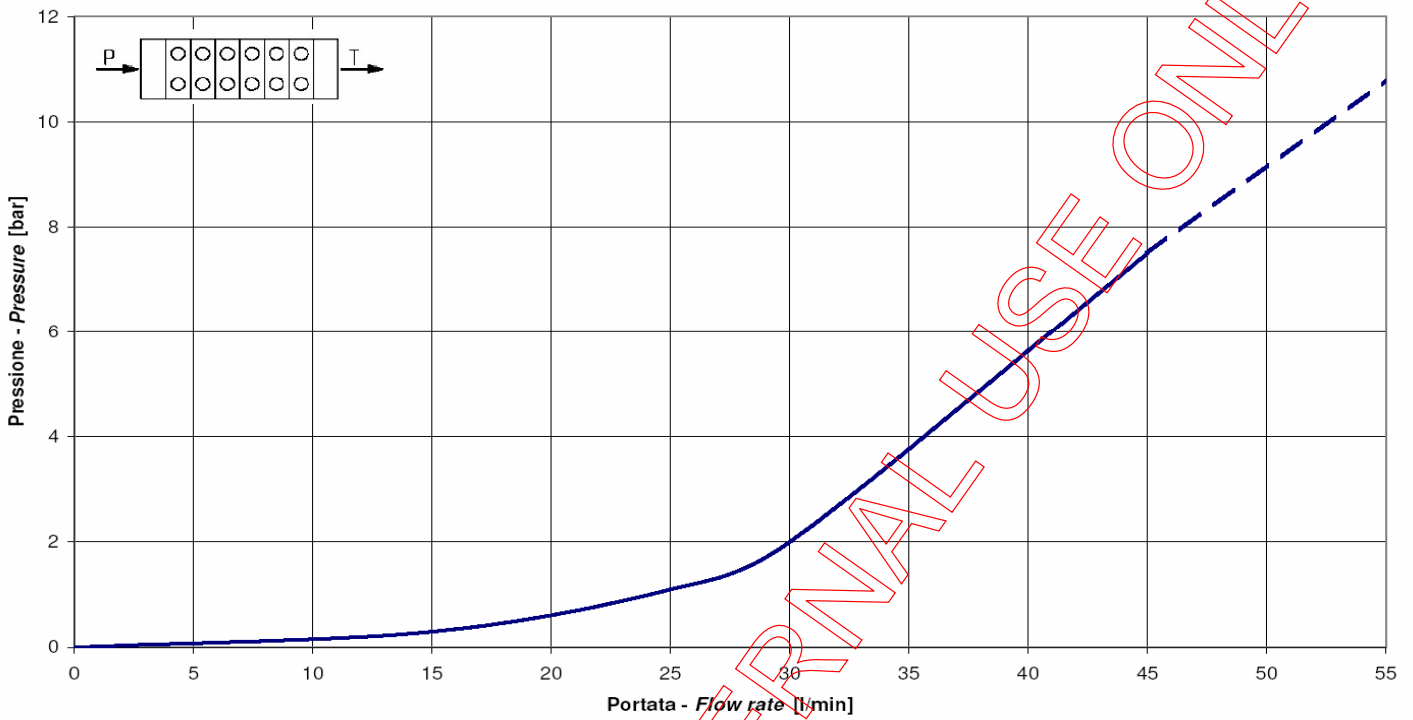


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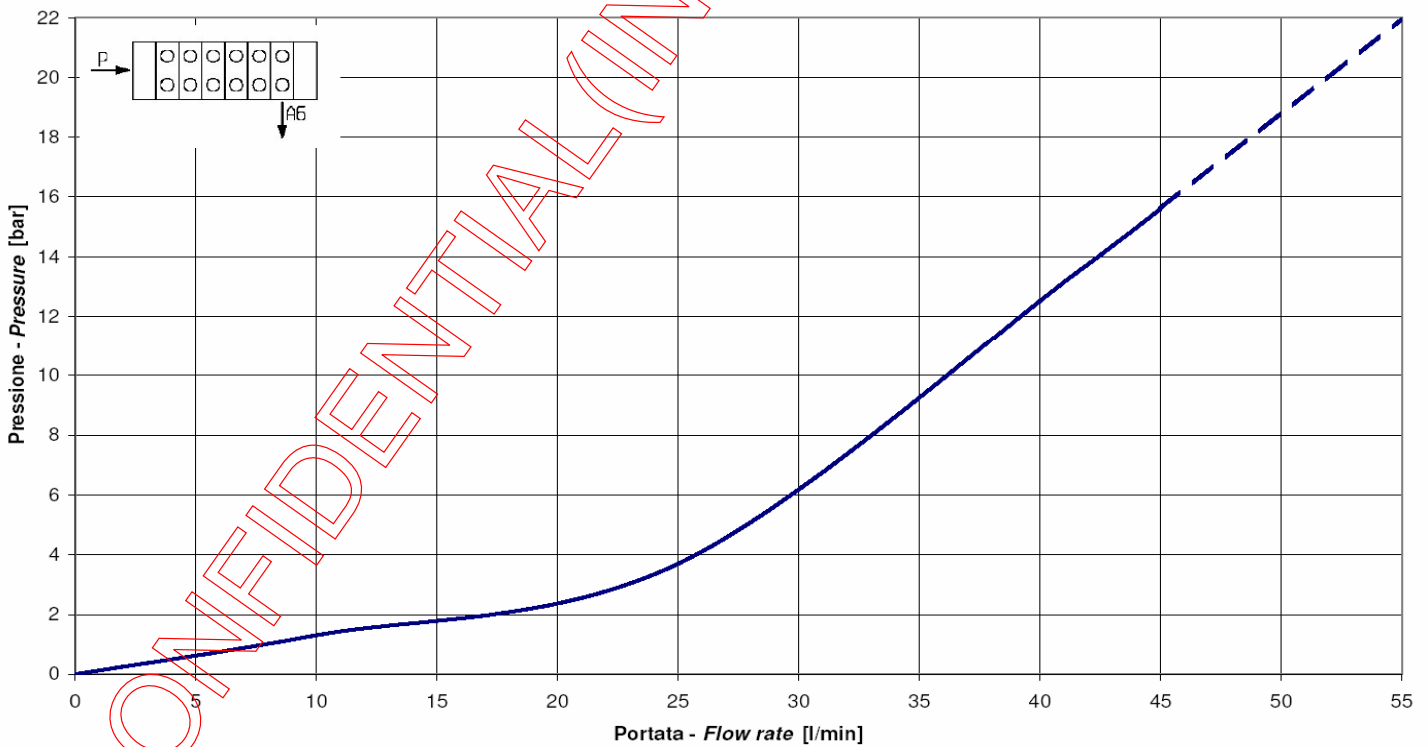




P-T DN/6 Spola - Spool 2921XX01000 21cSt

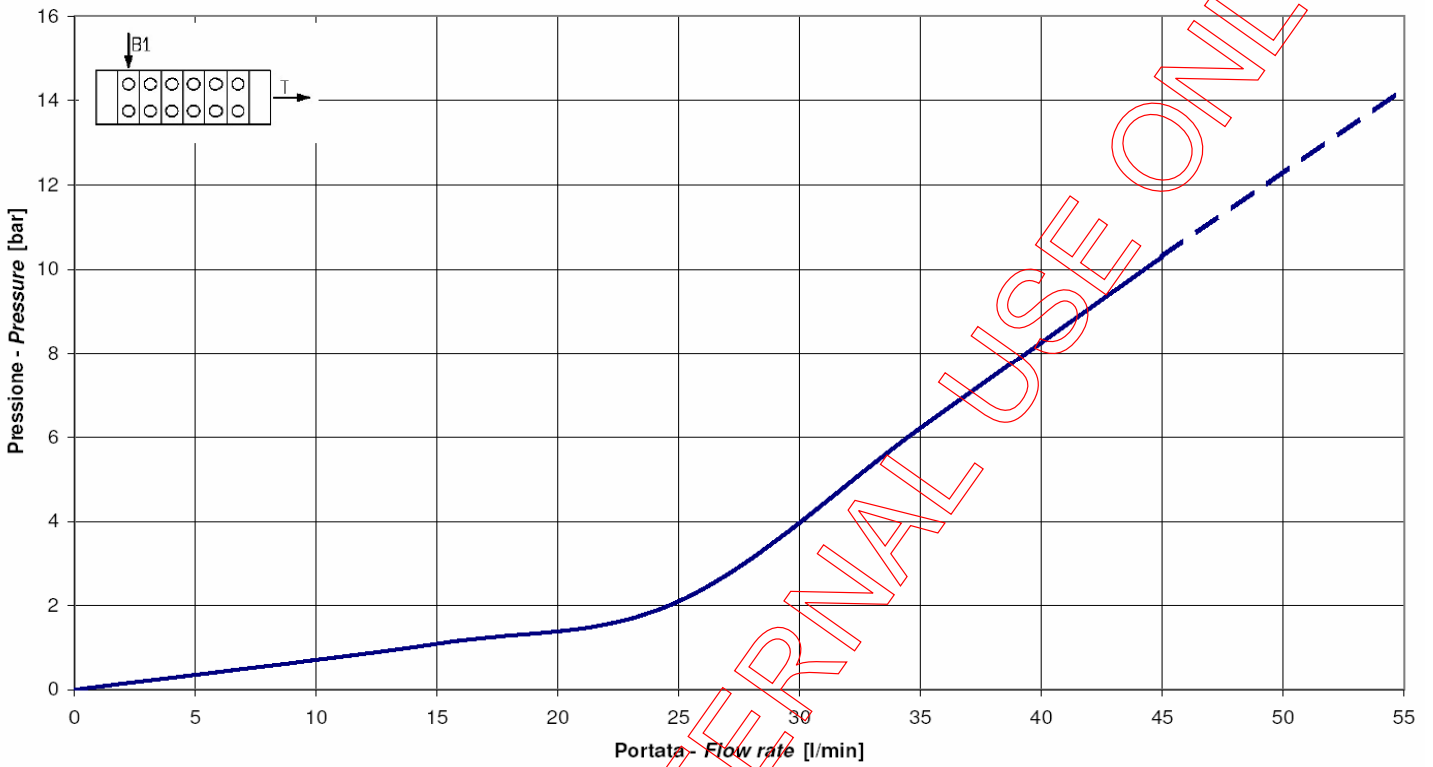


P-A DN/6 Spola - Spool 2921XX01000 21cSt





**B-T DN/6 Spola - Spool 2921XX01000 21cSt**



**Ordering instructions**

I	II	III	IV	V	VI	VII	VIII	IX	X	XI
---	----	-----	----	---	----	-----	------	----	---	----

<b>I. Model / Number of sections</b>	<b>page 13</b>
_____	
<b>II. Threads</b>	<b>page 14</b>
_____	
<b>III. Main relief valve</b>	<b>page 16</b>
_____	
<b>IV. Spool control</b>	<b>page 18</b>
_____	
<b>V. Spools (circuits)</b>	<b>page 27</b>
_____	
<b>VI. Actuators on lever side</b>	<b>page 39</b>
_____	
<b>VII. Actuators on spool control side</b>	<b>page 44</b>
_____	
<b>VIII. Port auxiliary valves</b>	<b>page 47</b>
_____	
<b>IX. Following section</b>	<b>page 48</b>
_____	
<b>X. Options on T</b>	<b>page 49</b>
_____	
<b>XI. Type of inlet/outlet port</b>	<b>page 50</b>
_____	

**IMPORTANT NOTE:** grey colour codes are special configurations



**I**

**Number of sections**

**Ordering instructions**

<b>DN3</b>											
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	

<b>Ordering code</b>	<b>Description</b>
<b>DN3</b>	3 sections
<b>DN4</b>	4 sections
<b>DN5</b>	5 sections
<b>DN6</b>	6 sections

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II

**Threads**

**Ordering instructions**

<b>DN3</b>	<b>C</b>									
I	II	III	IV	V	VI	VII	VIII	IX	X	XI

**Threads admitted**

<b>Ports thread</b>	<b>Identification for code creation</b>	<b>P – P1– T1</b>	<b>A – B</b>	<b>T</b>
<b>BSP ( "B" )</b>	<b>B</b>	1/2 G (*)	1/2 G (*)	1/2 G (*)
<b>BSP ( "A" )</b>	<b>A</b>	3/8 G	3/8 G	1/2 G
<b>BSP ( "L" )</b>	<b>L</b>	1/4 G	1/4 G	1/2 G
<b>Metric ( "C" )</b>	<b>C</b>	M18x1.5	M18x1.5	M22x1.5
<b>Metric ( "T" )</b>	<b>T</b>	M16x1.5	M16x1.5	M22x1.5
<b>Metric ISO 6149 ( "I" )</b>	<b>I</b>	M16x1.5	M16x1.5	M22x1.5
<b>Metric ISO 6149 ( "W" )</b>	<b>W</b>	M18x1.5	M18x1.5	M22x1.5
<b>SAE ( "E" )</b>	<b>E</b>	3/4 -16 SAE	3/4 -16 SAE	7/8 -14 SAE
<b>SAE ( "P" )</b>	<b>P</b>	9/16 -18 SAE	9/16 -18 SAE	7/8 -14 SAE

(\*) Max pressure is reduced to 250 bar.

NOTE: with VL and VB predisposition, 1/2G and 3/4 -16 SAE threads on A-B-P1-T1 are not possible.



**Recommended torques**

*Fittings*

<b>BSP thread</b>	<b>1/4" G</b>	<b>3/8" G</b>	<b>1/2" G</b>
<i>Torque [Nm] ± 5%</i>	14	35	70
<b>Metric thread</b>	<b>M16 x 1.5</b>	<b>M18 x 1.5</b>	<b>M22 x 1.5</b>
<i>Torque [Nm] ± 5%</i>	24	40	78
<b>Metric thread ISO 6149</b>	<b>M16 x 1.5</b>	<b>M18 x 1.5</b>	-
<i>Torque [Nm] ± 5%</i>	24	40	-
<b>SAE thread</b>	<b>9/16-18 UNF</b>	<b>3/4-16 UNF</b>	<b>7/8-14 UNF</b>
<i>Torque [Nm] ± 5%</i>	21	50	77

Note: With 35SMnPb10 (PR80) fittings the values of torque increase of about 50%.

*Lever and spool controls screws*

<b>Metric thread</b>	<b>M6</b>
<i>Torque [Nm] ± 1</i>	6

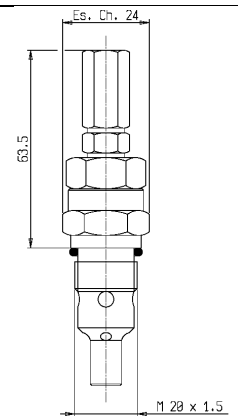
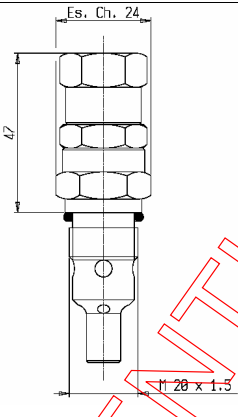
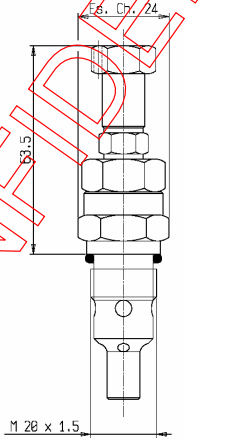
III

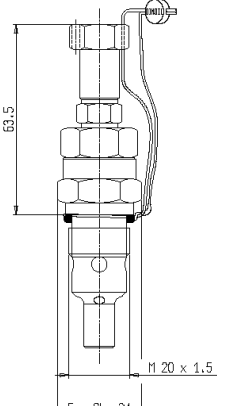
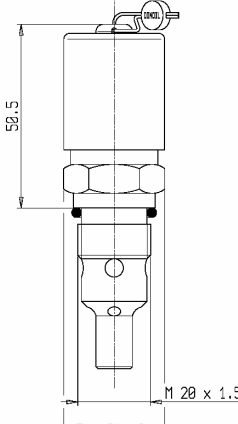
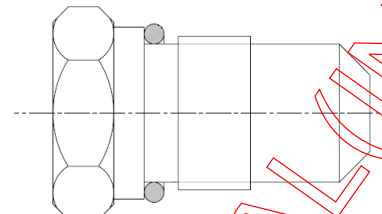
Main relief valve

Ordering instructions

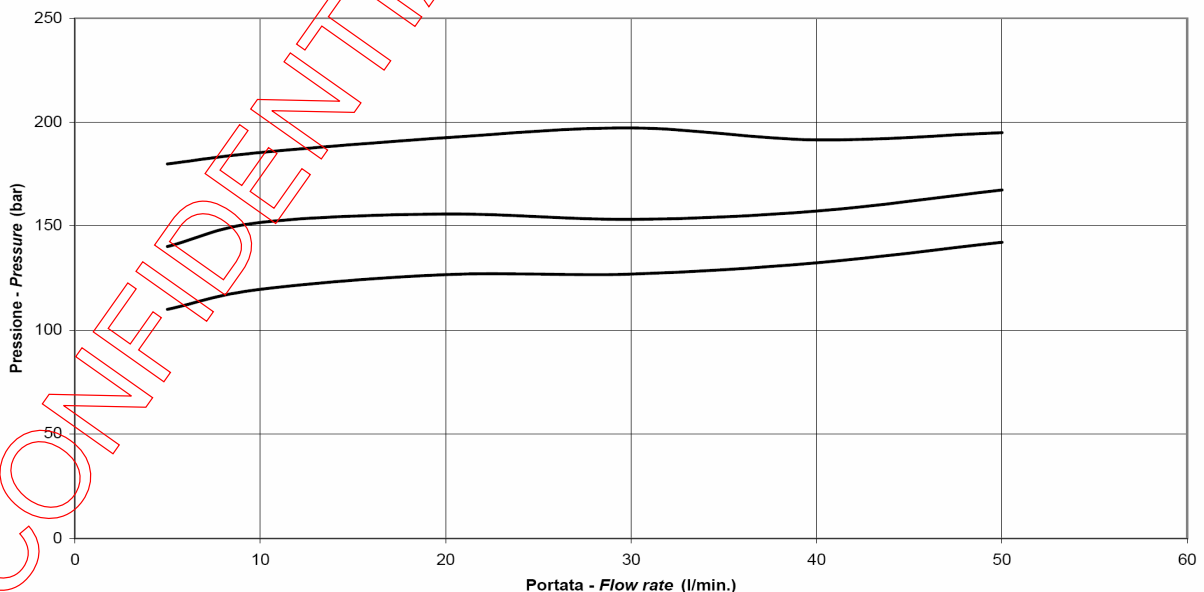
DN3	C	Z (180)								
I	II	III	IV	V	VI	VII	VIII	IX	X	XI

Main relief valve: Standard setting is referred to 5 l/min ±10% of flow rate, setting pressures are multiples of 10 bar

Type	Image	Ordering code		Operating pressure
		Valve type code	Pressure code	
DOWPD02M20--- <i>Main relief valve - grain</i>		02	X (80)	30–80 bar (standard setting 80 bar)
	Y (130)		90–130 bar (standard setting 130 bar)	
	Z (180)		140–180 bar (standard setting 180 bar)	
	V (210)		190–210 bar (standard setting 210 bar)	
	H (250)		220–300 bar (standard setting 250 bar)	
DOWPD00M20--- <i>Main relief valve - cap</i>		00	X (80)	30–80 bar (standard setting 80 bar)
	Y (130)		90–130 bar (standard setting 130 bar)	
	Z (180)		140–180 bar (standard setting 180 bar)	
	V (210)		190–210 bar (standard setting 210 bar)	
	H (250)		220–300 bar (standard setting 250 bar)	
DOWPD08M20--- <i>Main relief valve -lead predisposed</i>		08	X (80)	30–80 bar (standard setting 80 bar)
	Y (130)		90–130 bar (standard setting 130 bar)	
	Z (180)		140–180 bar (standard setting 180 bar)	
	V (210)		190–210 bar (standard setting 210 bar)	
	H (250)		220–300 bar (standard setting 250 bar)	

<p>DOWPD10M20---</p> <p>Main relief valve – leaded grain</p>		<p style="text-align: center; font-size: 24px;">10</p>	<p>X (80)</p> <p>Y (130)</p> <p>Z (180)</p> <p>V (210)</p> <p>H (250)</p>	<p>30–80 bar (standard setting 80 bar)</p> <p>90–130 bar (standard setting 130 bar)</p> <p>140–180 bar (standard setting 180 bar)</p> <p>190–210 bar (standard setting 210 bar)</p> <p>220–300 bar (standard setting 250 bar)</p>
<p>DOWPD20M20---</p> <p>Main relief valve – leaded cap</p>		<p style="text-align: center; font-size: 24px;">20</p>	<p>X (80)</p> <p>Y (130)</p> <p>Z (180)</p> <p>V (210)</p> <p>H (250)</p>	<p>30–80 bar (standard setting 80 bar)</p> <p>90–130 bar (standard setting 130 bar)</p> <p>140–180 bar (standard setting 180 bar)</p> <p>190–210 bar (standard setting 210 bar)</p> <p>220–300 bar (standard setting 250 bar)</p>
<p>DO58803</p> <p>Replacement screw plug for main relief valve</p>				

Curva caratteristica valvole - Valves characteristic bend (21cSt)



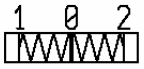
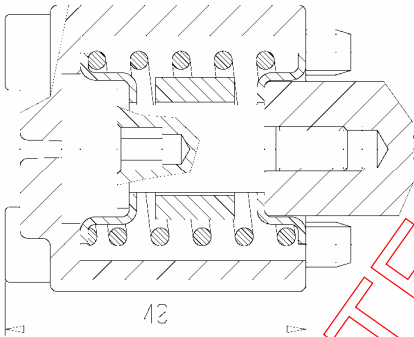
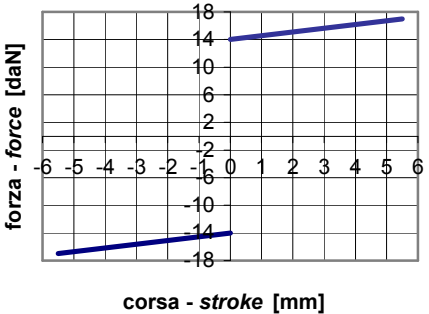

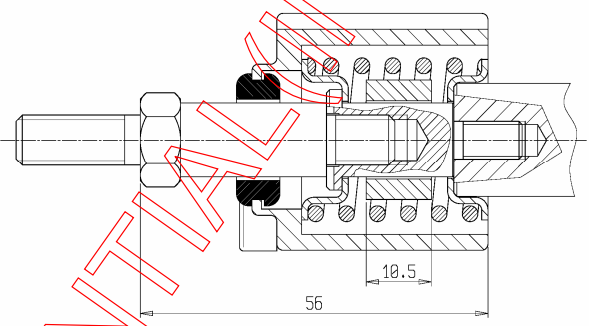
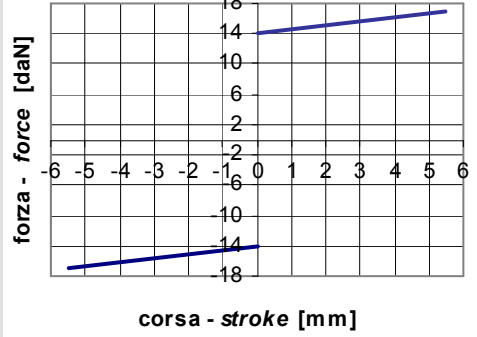

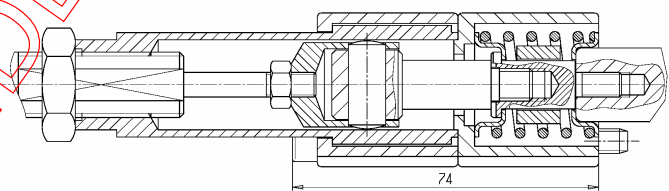
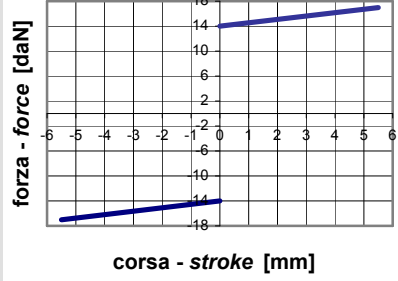
**IV**

**Spool control**

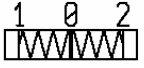
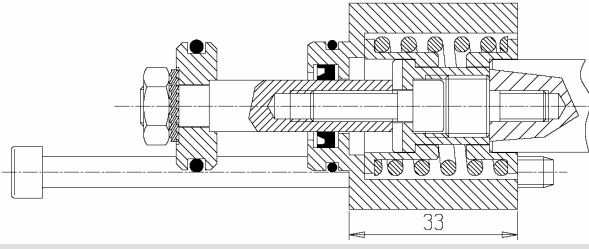
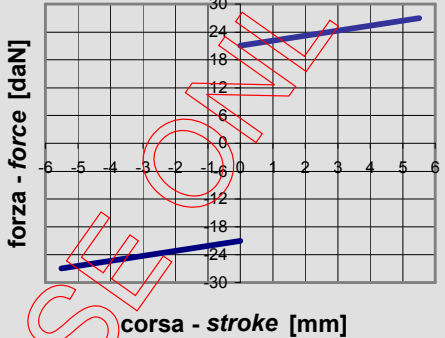
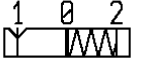
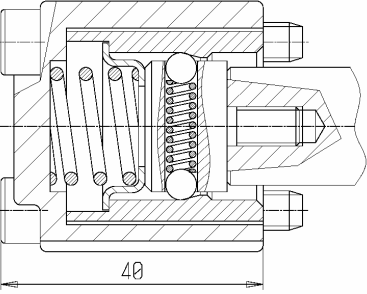
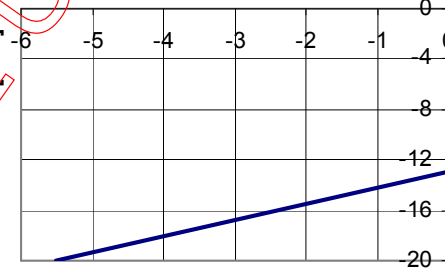
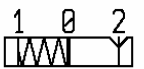
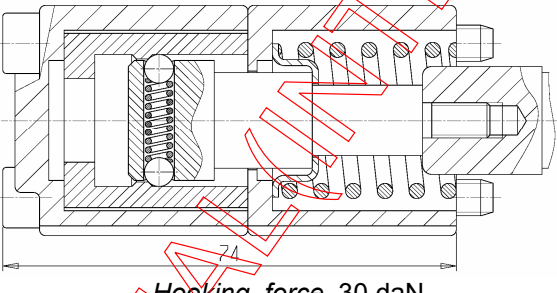
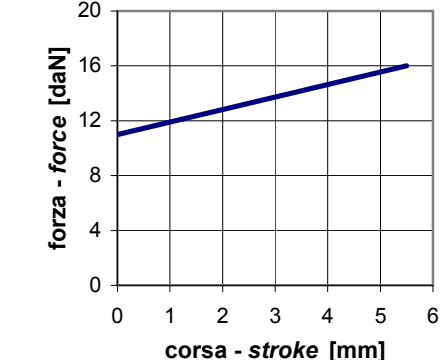
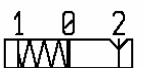
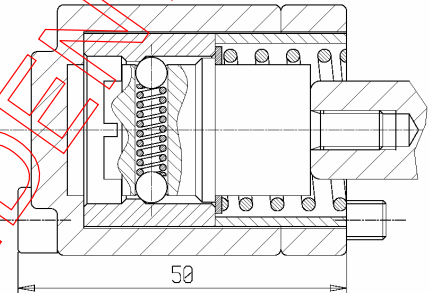
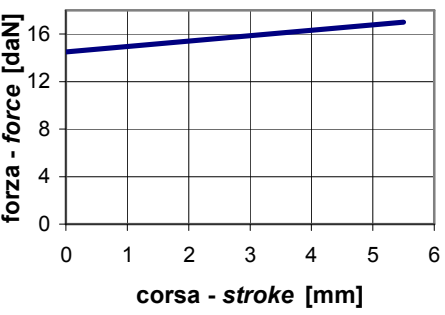
**Ordering instructions**

<b>DN3</b>	<b>C</b>	<b>Z (180)</b>	<b>A</b>							
I	II	III	IV	V	VI	VII	VIII	IX	X	XI

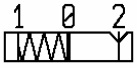
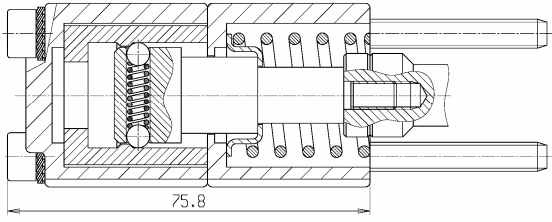
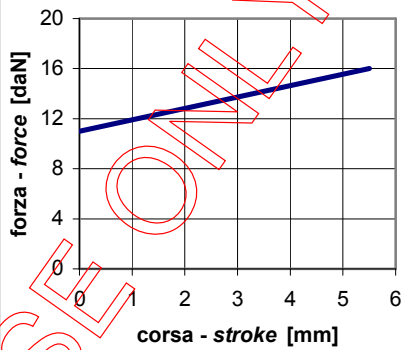
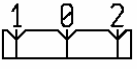
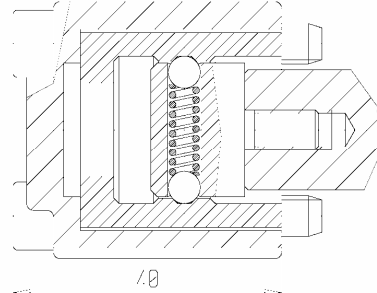
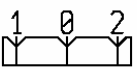
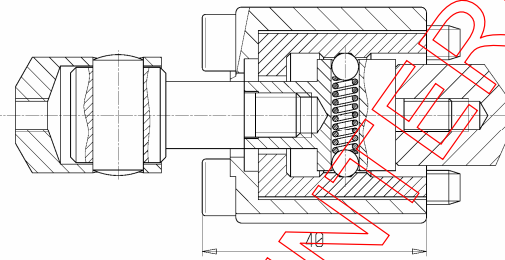
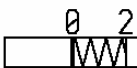
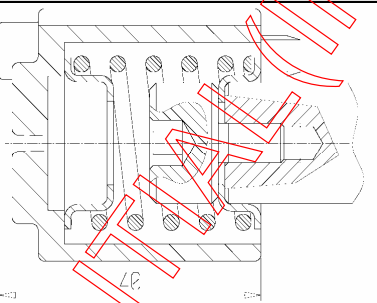
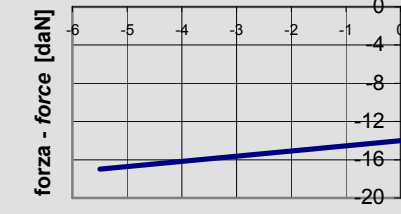
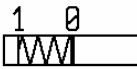
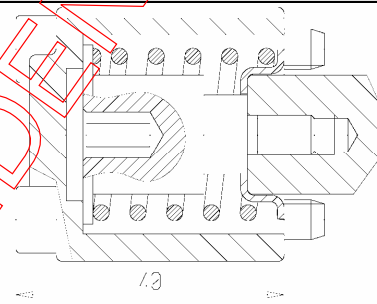
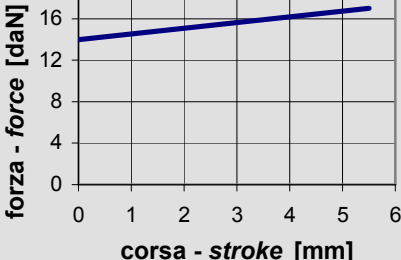
Actuator forces are measured on spool axis in working conditions, with no oil flow. Forces are inclusive of friction and have ± 10% tolerance (Test norms ref. DVCIPS09).

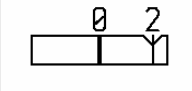
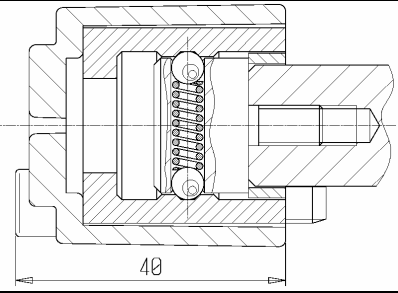
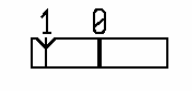
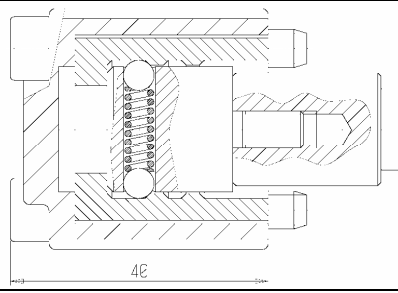
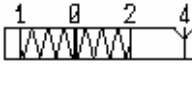
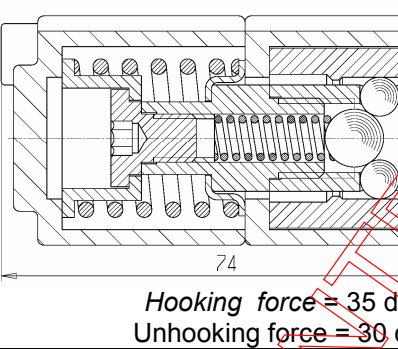
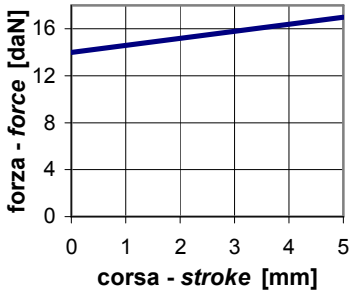
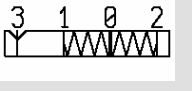
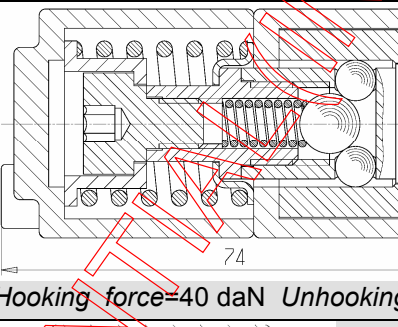
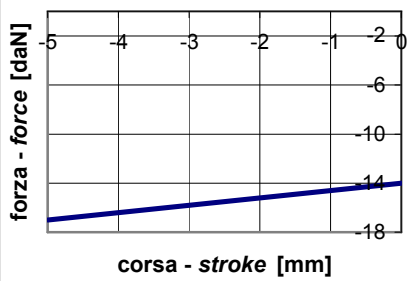
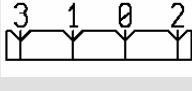
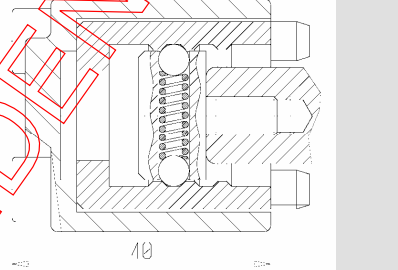
Scheme	code	Section drawing
<p>DO580550A39</p> <p>Standard A-type spool control.</p> 	<b>A</b>	 
<p>DO580550A43</p> <p>For double control M8 male</p> 	<b>A</b>	 
<p>DO580550A55</p> <p>For flexible cable control</p> 	<b>A</b>	 <p>Note: forces do not include cable contribution.</p> 



<p>DO580550A07</p> <p>For electro hydraulic control</p> 	<p><b>A</b></p>		 <p>forza - force [daN]</p> <p>corsa - stroke [mm]</p>
<p>DO580550B07</p> 	<p><b>B</b></p>	 <p>Hooking force 22 daN Unhooking force 27 daN</p>	 <p>forza - force [daN]</p> <p>corsa - stroke [mm]</p>
<p>DO580550C08</p> 	<p><b>C</b></p>	 <p>Hooking force 30 daN Unhooking force 20 daN</p>	 <p>forza - force [daN]</p> <p>corsa - stroke [mm]</p>
<p>DO580550C03</p> 	<p><b>C</b></p>	 <p>Hooking force 30 daN Unhooking force 20 daN</p>	 <p>forza - force [daN]</p> <p>corsa - stroke [mm]</p>

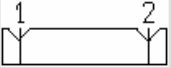
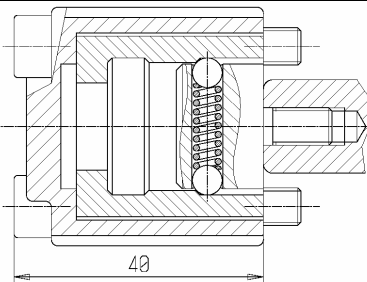

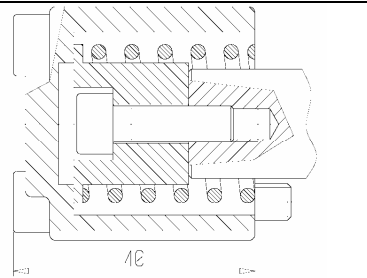
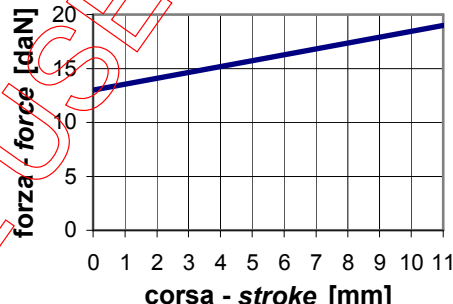

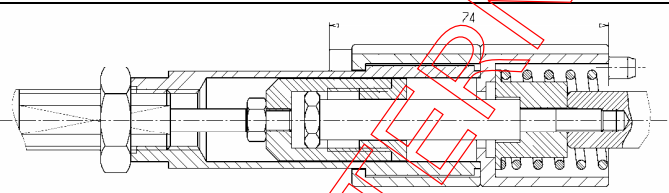
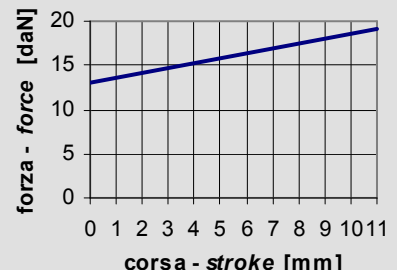

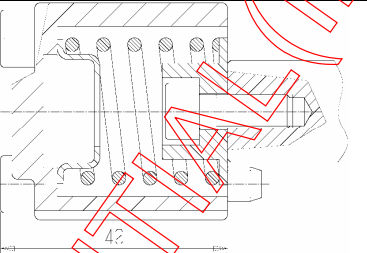
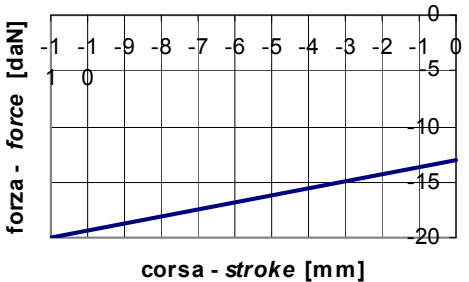

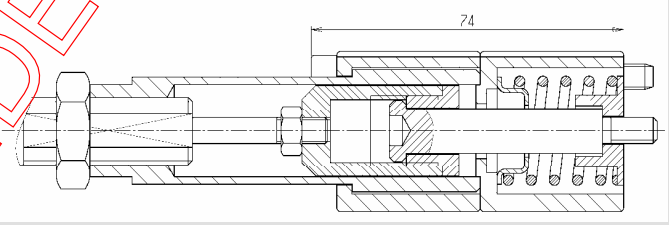
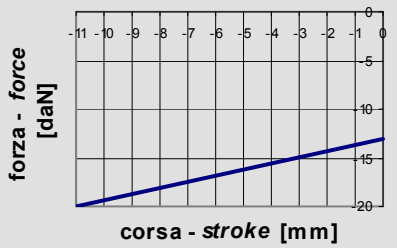


<p>DO580550C10</p> <p><i>For single section micro predisposition</i></p> 	<p><b>C</b></p>	 <p>Hooking force 30 daN Unhooking force 20 daN</p>	 <p>forza - force [daN]</p> <p>corsa - stroke [mm]</p>
<p>DO580550D01</p> 	<p><b>D</b></p>		<p>Hooking force 27 daN Unhooking force 27 daN</p>
<p>DO580550D08</p> <p><i>For flexible cable control</i></p> 	<p><b>D</b></p>		<p>Hooking force = 27 daN Unhooking force = 27 daN</p>
<p>DO580550E04</p> 	<p><b>E</b></p>		 <p>forza - force [daN]</p> <p>corsa - stroke [mm]</p>
<p>DO580550F04</p> 	<p><b>F</b></p>		 <p>forza - force [daN]</p> <p>corsa - stroke [mm]</p>

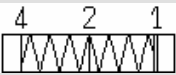
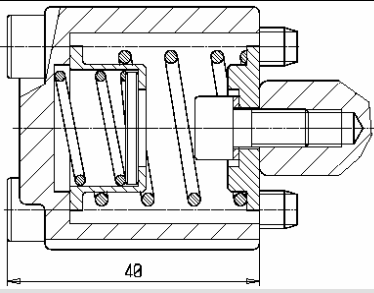
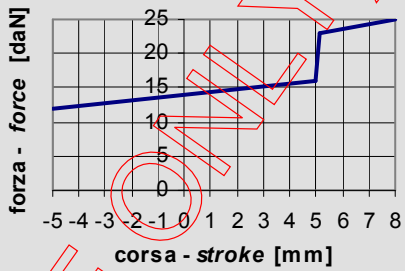
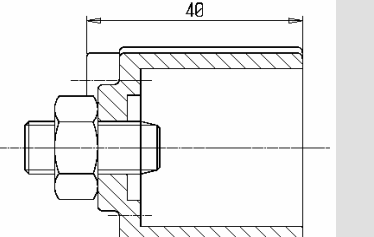
<p>DO580550H01</p> 	<p><b>H</b></p>		<p>Hooking force 27 daN Unhooking force 27 daN</p>
<p>DO580550L01</p> 	<p><b>L</b></p>		<p>Hooking force 27 daN Unhooking force 27 daN</p>
<p>DO580550N20</p> 	<p><b>NT</b></p>		 <p>Hooking force = 35 daN Unhooking force = 30 daN</p>
<p>DO580550N14</p> 	<p><b>NS</b></p>		 <p>Hooking force=40 daN Unhooking force=30daN</p>
<p>DO580550P01</p> 	<p><b>PS</b></p>		<p>Hooking force = 27 daN Unhooking force = 27 daN</p>




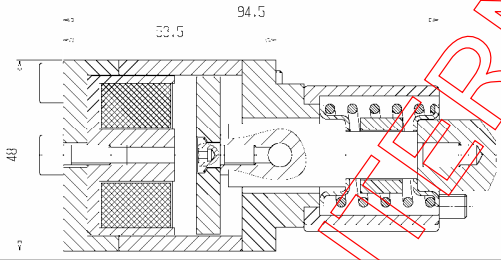

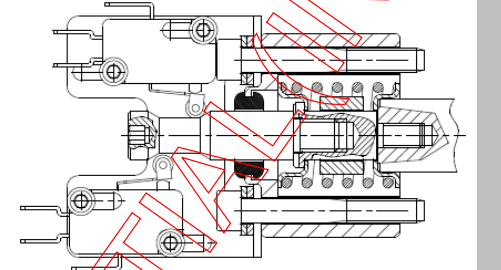

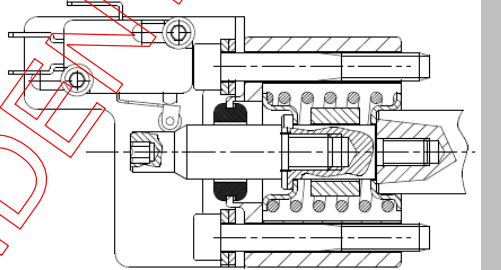

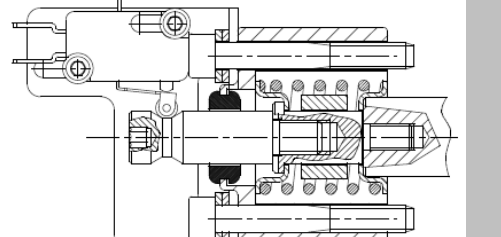


<p>DO580550Q01</p> 	<p><b>Q</b></p>		<p>Unhooking force = 23 daN</p>
<p>DO580550R10</p> 	<p><b>R</b></p>		
<p>DO580550R12</p> <p><i>For flexible cable control</i></p> 	<p><b>R</b></p>		
<p>DO580550S10</p> 	<p><b>S</b></p>		
<p>DO580550S13</p> <p><i>For flexible cable control</i></p> 	<p><b>S</b></p>		


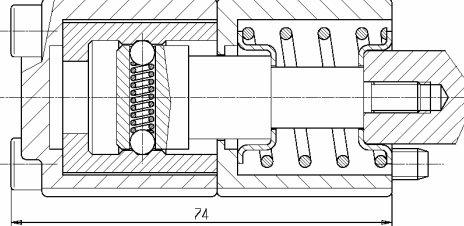
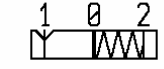
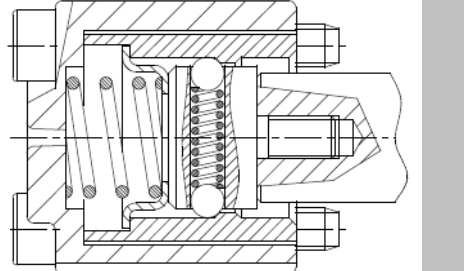
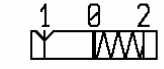
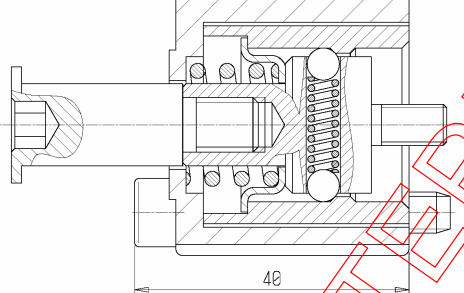
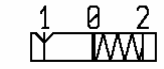
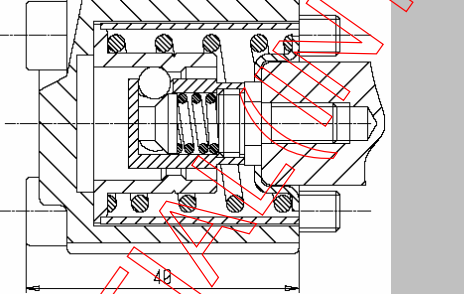
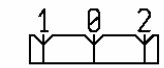
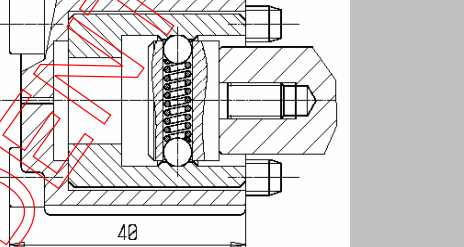
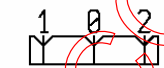
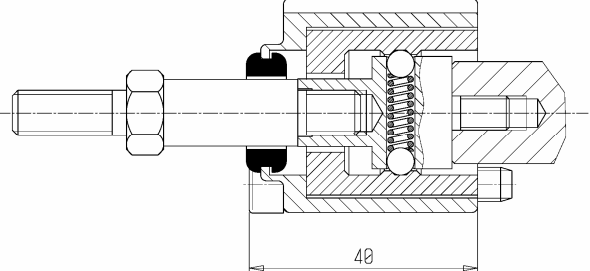


<p>DO58055TR09</p> <p><i>For regenerative circuit 23</i></p> 	<p>TR</p>		 <p>forza - force [daN]</p> <p>corsa - stroke [mm]</p>
<p>DO5753703</p> <p><i>Kit stroke limiter on spool control side</i></p>			


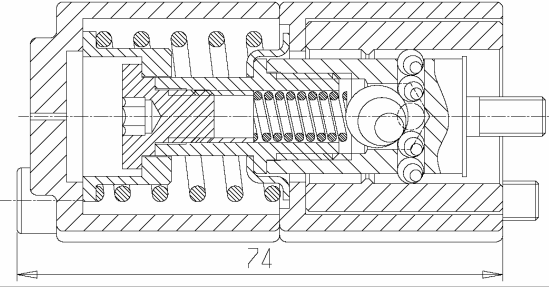
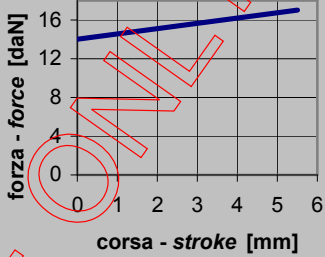

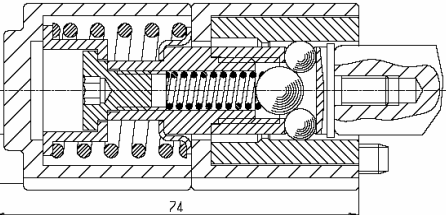
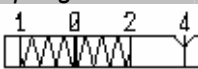
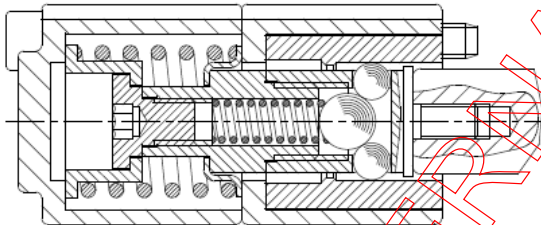
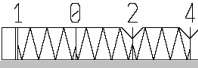
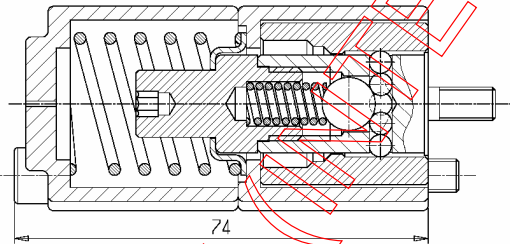
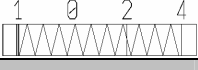
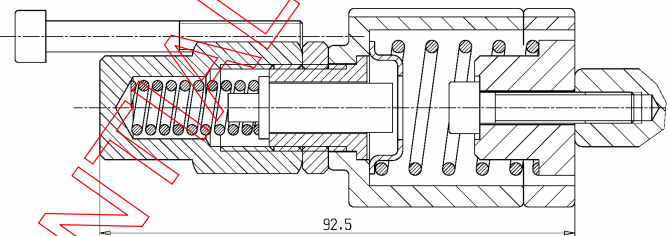
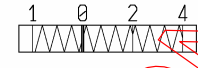
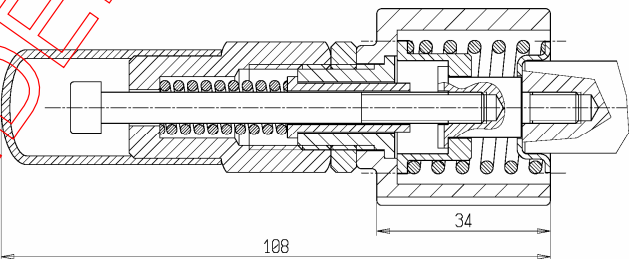
**Special spool controls**

<p>DO580550A56</p> <p><i>With electromagnetic control</i></p> 	<p>A</p>		
<p>DO580550A59</p> <p><i>For double micro kit predisposition</i></p> 	<p>A</p>		
<p>DO580550A60</p> <p><i>For micro kit predisposition</i></p> 	<p>A</p>		
<p>DO580550A61</p> <p><i>For micro kit predisposition</i></p> 	<p>A</p>		



<p>DO58055AD02</p> <p><i>With detent</i></p> 	<p><b>AD</b></p>		
<p>DO580550B01</p> 	<p><b>B</b></p>		
<p>DO580550B09</p> <p><i>With extension RABAUD</i></p> 	<p><b>B</b></p>		
<p>DO580550B08</p> <p><i>Compact Stroke 5.5_5.5</i></p> 	<p><b>B</b></p>		
<p>DO580450D02</p> <p><i>With detent Stroke 4.5_4.5</i></p> 	<p><b>D</b></p>		
<p>DO580450D03</p> <p><i>With detent Stroke 4.5_4.5</i></p> 	<p><b>D</b></p>		



<p>DO580550N21</p> <p>For regenerative circuit 17</p> 	<p>NT</p>		 <p>forza - force [daN]</p> <p>corsa - stroke [mm]</p>
		<p>Hooking force = 35 daN    Unhooking force = 30 daN</p>	
<p>DO580550N01</p> 	<p>NT</p>		
<p>DO580550N13</p> <p>With 263Z0091 spring</p> 	<p>N</p>		
<p>DO58055PN03</p> <p>For regenerative circuit 17</p> 	<p>PN</p>		<p>Hooking force = 27 daN Unhooking force = 27 daN</p>
<p>DO58055TR07</p> <p>For regenerative circuit 17</p> 	<p>TR</p>		
<p>DO580550T03</p> <p>For regenerative circuit 17</p> 	<p>T</p>		



<p>DO58055SQ10</p> <p><i>For two aluminum died casting spool control caps</i></p>	<p><b>SQ</b></p>																
<p>DO58055CP02</p> <p><i>For two aluminum died casting spool control caps</i></p>	<p><b>CPT</b></p>	<p>Hooking force = 40 daN    Unhooking force = 20 daN</p>	<table border="1"> <caption>Force vs Stroke Data</caption> <thead> <tr> <th>corsa - stroke [mm]</th> <th>forza - force [daN]</th> </tr> </thead> <tbody> <tr><td>0</td><td>12</td></tr> <tr><td>1</td><td>13</td></tr> <tr><td>2</td><td>14</td></tr> <tr><td>3</td><td>15</td></tr> <tr><td>4</td><td>16</td></tr> <tr><td>5</td><td>16</td></tr> </tbody> </table>	corsa - stroke [mm]	forza - force [daN]	0	12	1	13	2	14	3	15	4	16	5	16
corsa - stroke [mm]	forza - force [daN]																
0	12																
1	13																
2	14																
3	15																
4	16																
5	16																

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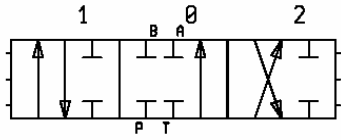
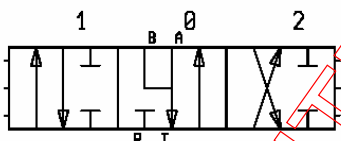
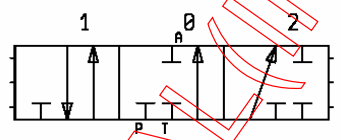
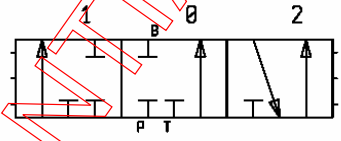
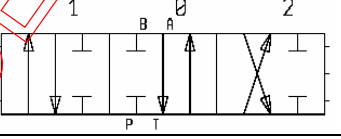
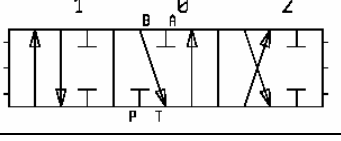
**V**

**Circuit**

**Ordering instructions**

DN3	C	Z (180)	A	<b>1</b>						
I	II	III	IV	<b>V</b>	VI	VII	VIII	IX	X	XI

**Available circuit**

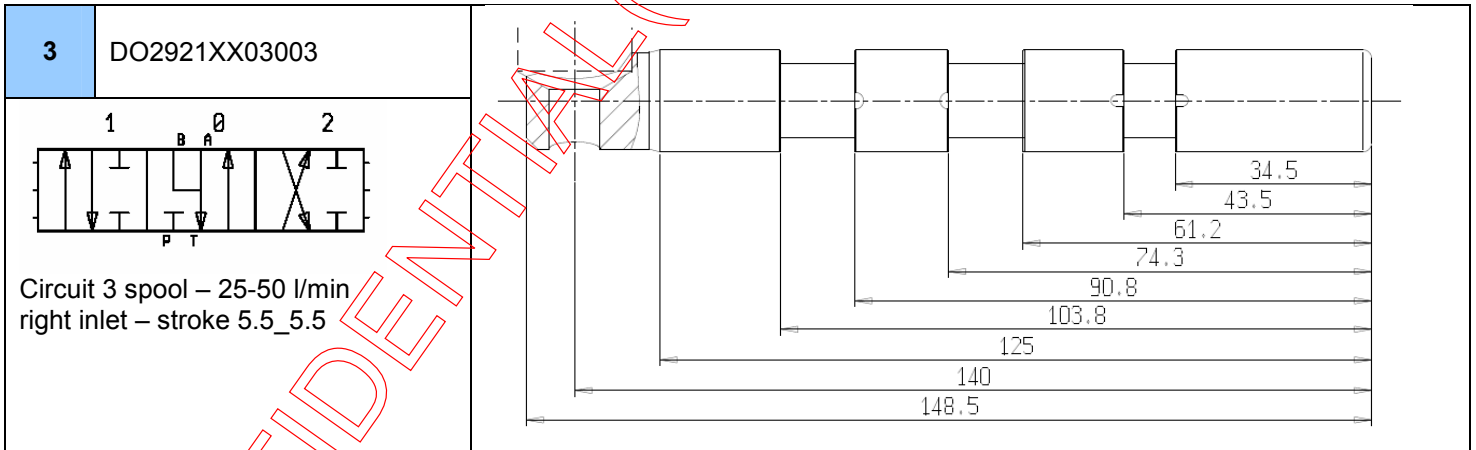
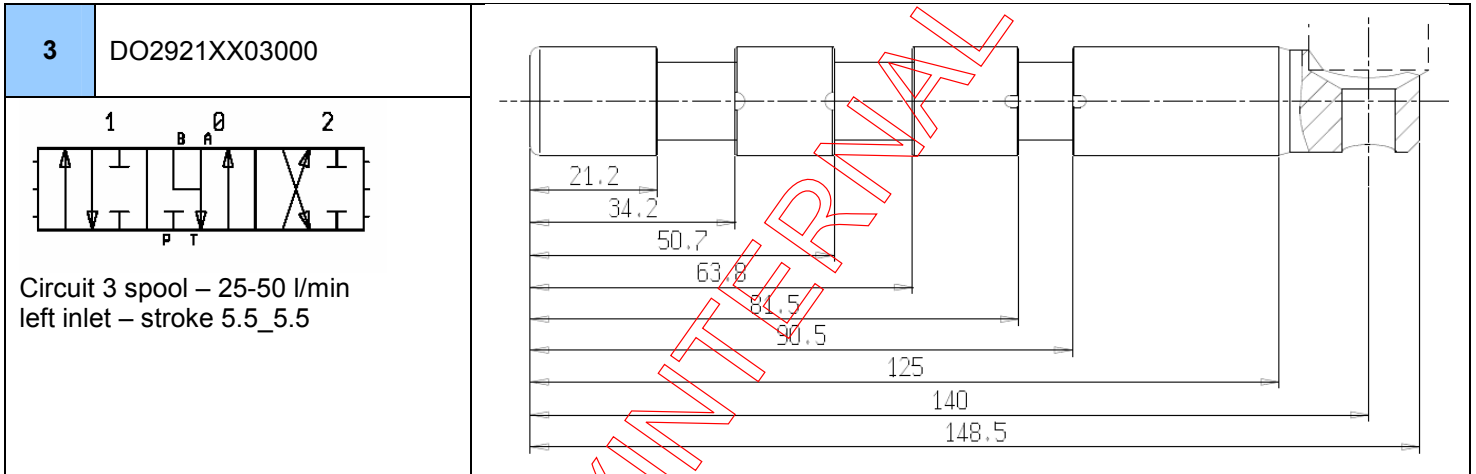
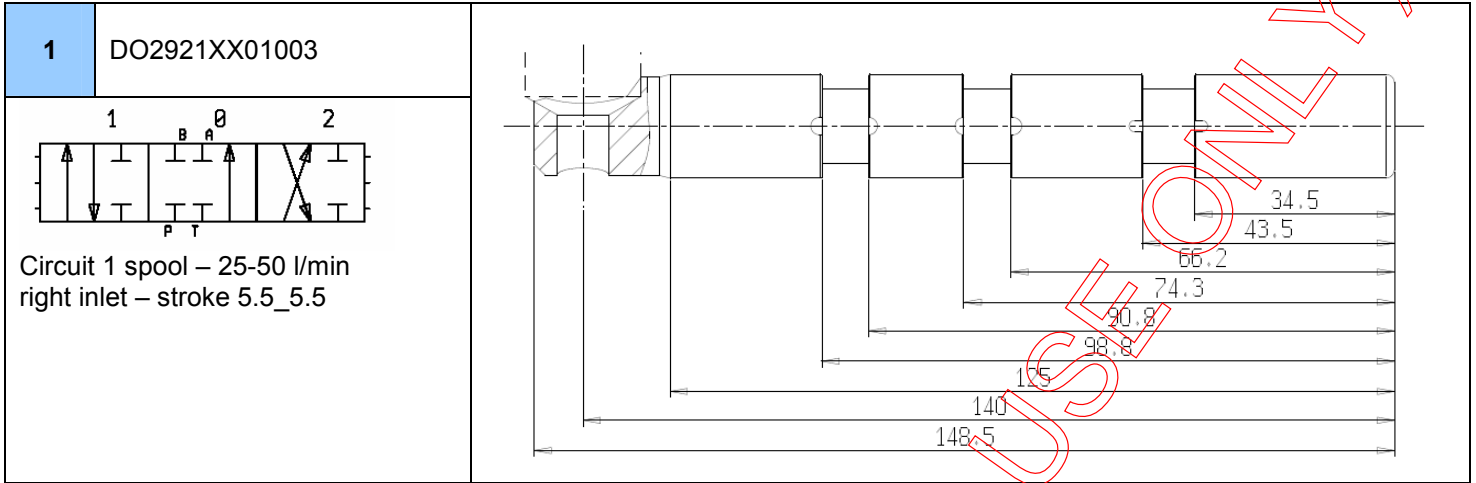
<b>CIRCUIT 1</b>		Double acting with 3 positions, A and B closed in central position.
<b>CIRCUIT 3</b>		Double acting with 3 positions, A and B connected to the tank in central position.
<b>CIRCUIT 4</b>		Simple acting in A and port B plugged.
<b>CIRCUIT 5</b>		Simple acting in B and port A plugged.
<b>CIRCUIT 8</b>		Double acting with 3 positions, A connected to the tank in neutral position.
<b>CIRCUIT 10</b>		Double acting with 3 positions, B connected to the tank in neutral position.



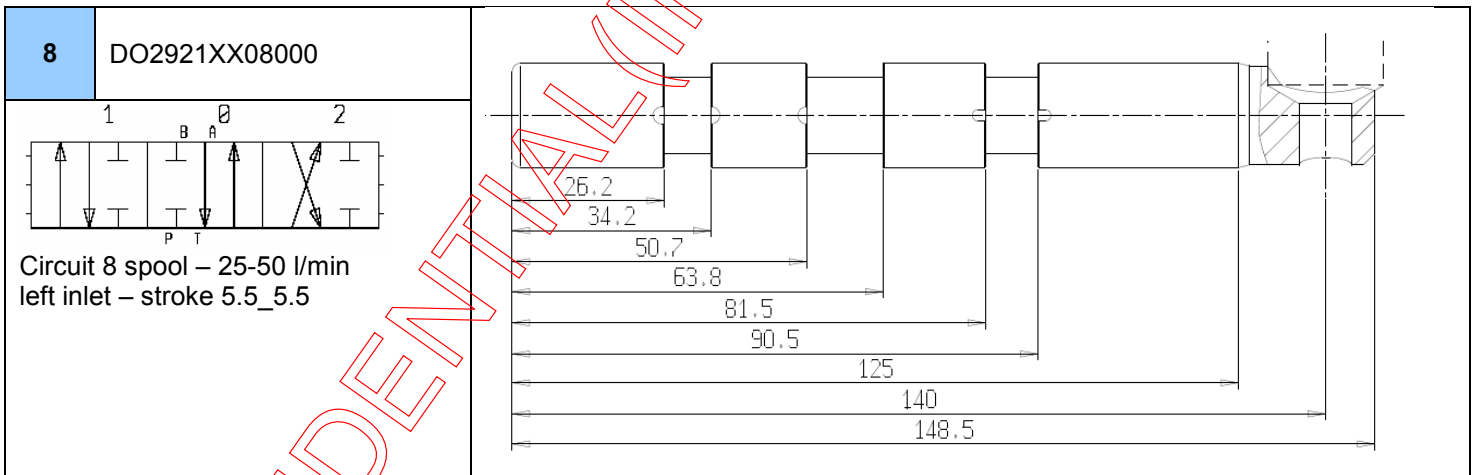
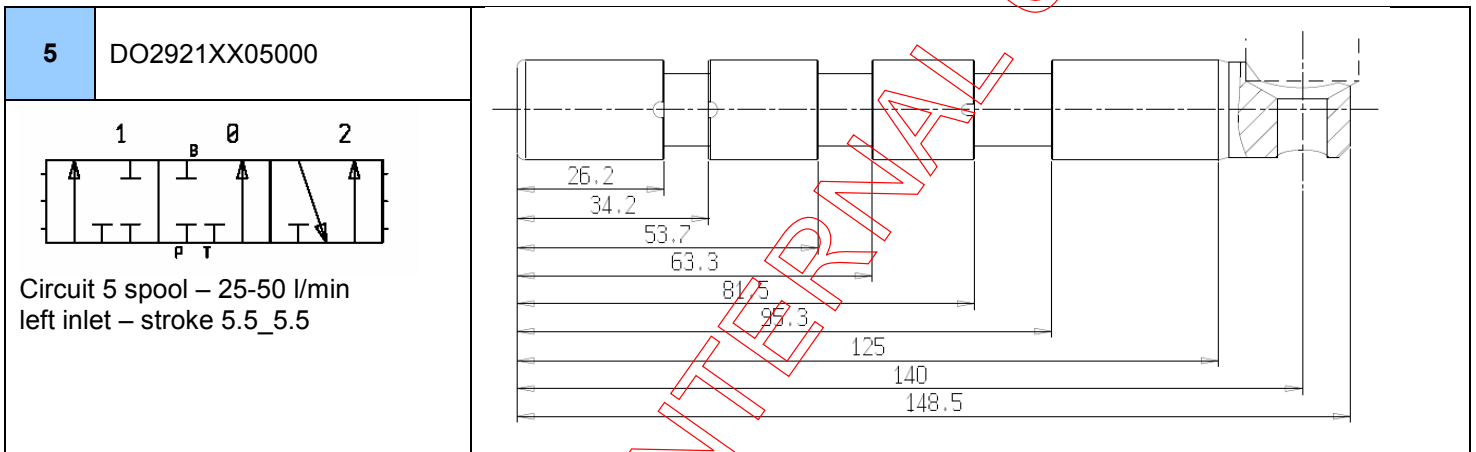
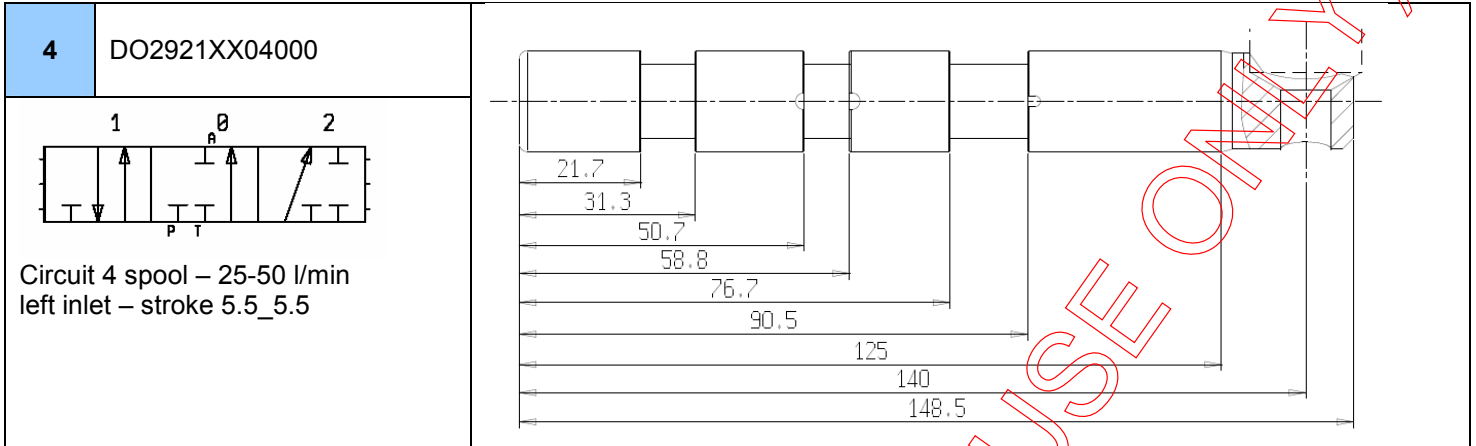
<b>CIRCUIT 7</b>		Double acting, with positions 1, central, 2 and 3; with A and B closed in central position and floating position in 3. (Pushing the lever)
<b>CIRCUIT 23</b>		Double acting, with positions 1, central, 2 and 4; with A and B closed in central position and regenerative position in 2.
<b>CIRCUIT 70</b>		Double acting, with positions 1, central, 2 and 4; with A and B closed in central position and floating position in 4. (Pulling the lever)
<b>CIRCUIT 17</b>		Double acting, with positions 1, central and 2; with A and B closed in central position and floating position in 3. (Pushing the lever)
<b>CIRCUIT 25</b>		Diverter function with 3 positions, A and B closed in central position

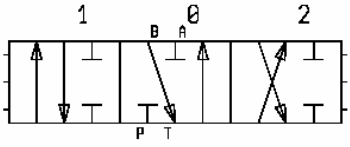
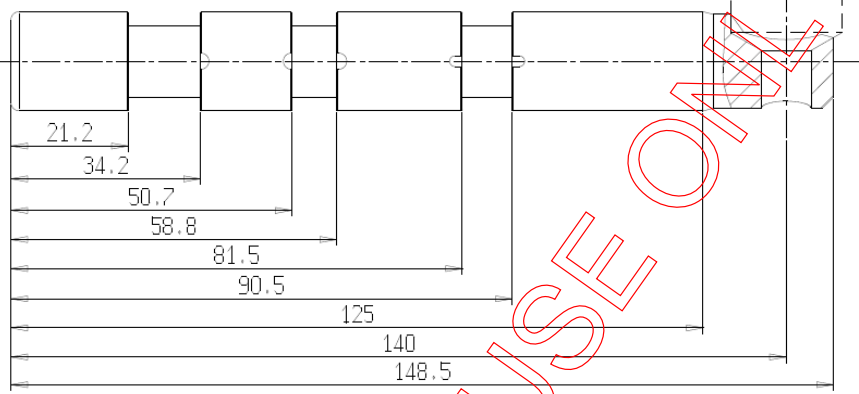
<b>1</b>	DO2921XX01000	
<p>Circuit 1 spool – 25-50 l/min left inlet – stroke 5.5_5.5</p>		

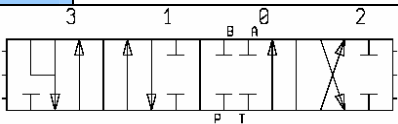
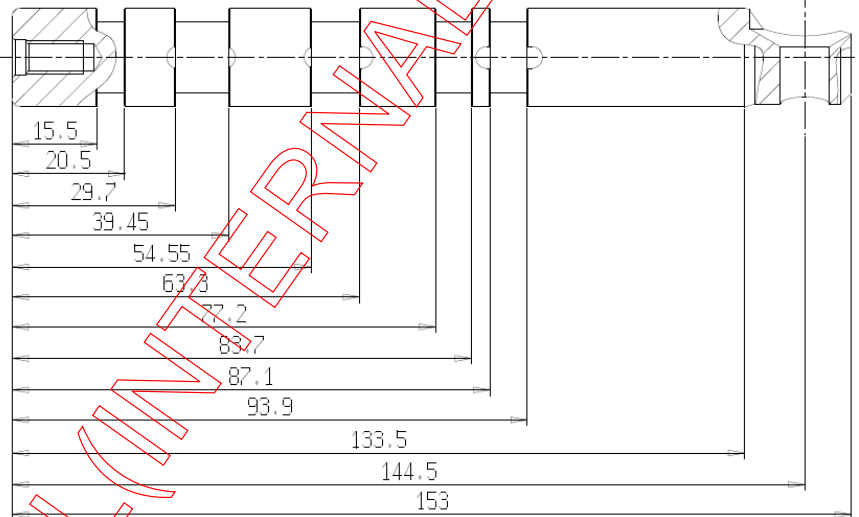


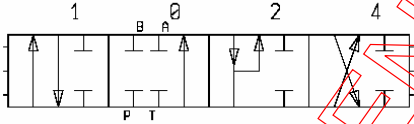
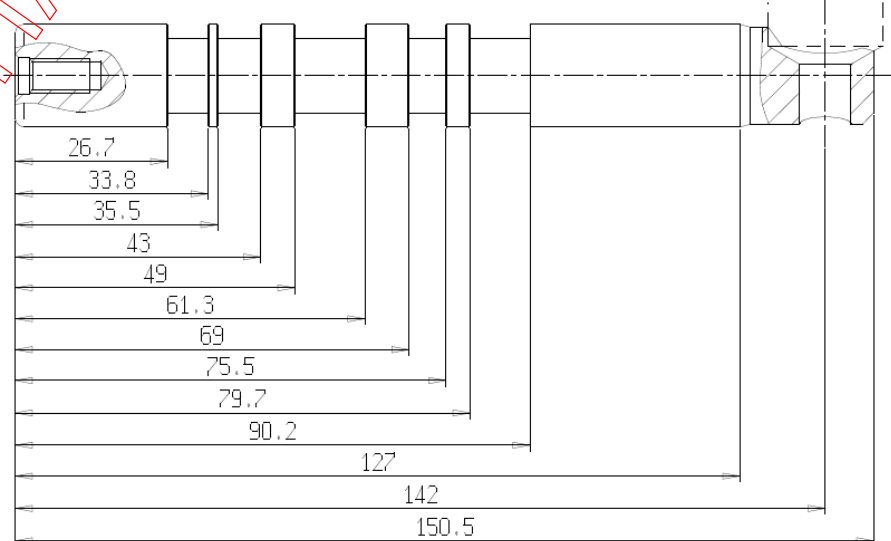


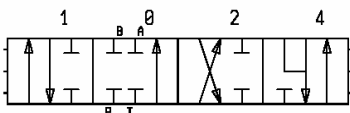
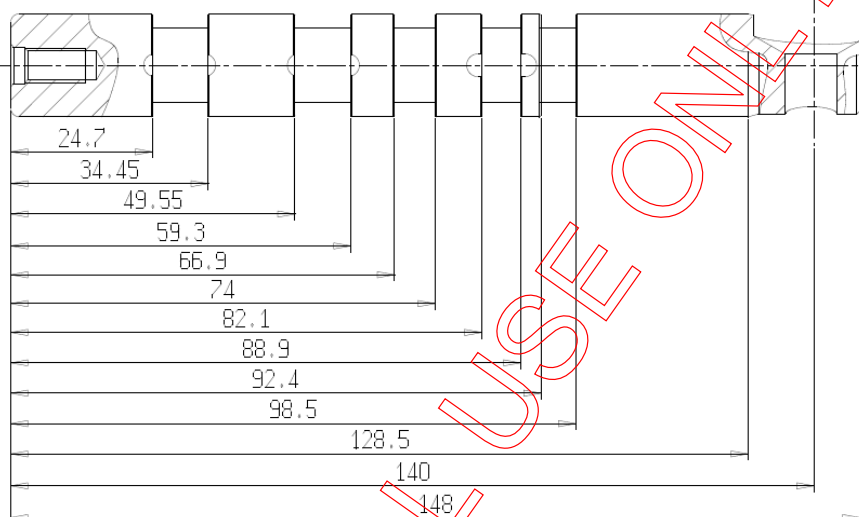
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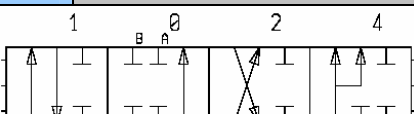
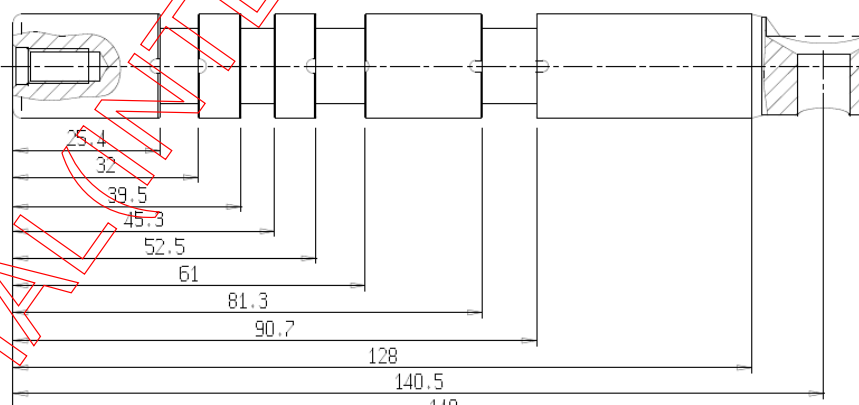
<b>10</b>	<b>DO2921XX10000</b>	 <p>Circuit 10 spool – 25-50 l/min left inlet – stroke 5.5_5_5</p>	
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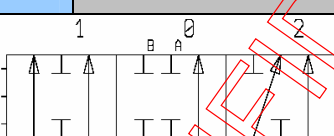
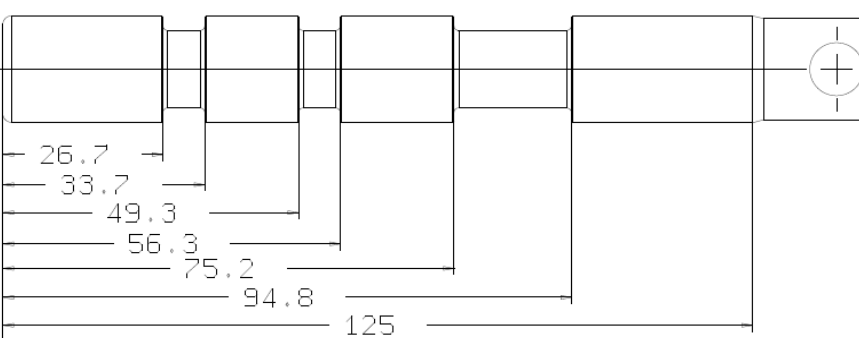
<b>7</b>	<b>DO2921XX07000</b>	 <p>Circuit 7 spool – 25-50 l/min left inlet – stroke 5_5_0_5</p>	
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<b>23</b>	<b>DO2921XX23000</b>	 <p>Circuit 23 spool – 25-50 l/min left inlet – stroke 5_4_0_4</p>	
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<b>70</b>	DO2921XX70001	 <p>Circuit 70 spool – 25-50 l/min left inlet – stroke 5_5_0_5</p>	
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**Special circuits**

<b>17</b>	DO2921XX17001	 <p>Circuit 17 spool – 25-50 l/min left inlet – stroke 5.5_0_5.5_3</p>	
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<b>25</b>	DO2921XX25000	 <p>Circuit 25 spool left inlet – stroke 4.5_4.5</p>	
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**Spools**

<b>Circuit</b>	<b>Code</b>	<b>Inlet type</b>	<b>Type of extension</b>	<b>Flow rate</b>
1	DO2921XX01000	Left	With extension	25-50 l/min
1	DO2921XX01002	Left	With extension	10-25 l/min
1	DO2921XX01001	Left	Without extension	25-50 l/min
1	DO2921XX01003	Right	With extension	25-50 l/min
1	DO2921XX01005	Right	With extension	10-25 l/min
1	DO2921XX01008	Left	With extension	For traverse
1	DO2921XX01010	Left	With extension	25-50 l/min with open by-pass
1	DO2921XX01012		Without extension	25-50 l/min M8 thread on actuator side
1	DO2921XX01013		Without extension	10-25 l/min M8 thread on actuator side
3	DO2921XX03000	Left	With extension	25-50 l/min
3	DO2921XX03002	Left	With extension	10-25 l/min
3	DO2921XX03001	Left	Without extension	25-50 l/min
3	DO2921XX03006	Left	Without extension	For follower
3	DO2921XX03003	Right	With extension	25-50 l/min
3	DO2921XX03005	Right	With extension	10-25 l/min
4	DO2921XX04000	Left	With extension	25-50 l/min
4	DO2921XX04003	Right	With extension	25-50 l/min
4	DO2921XX04002	Left	With extension	10-25 l/min
4	DO2921XX04005	Right	With extension	10-25 l/min
5	DO2921XX05000	Left	With extension	25-50 l/min
5	DO2921XX05003	Right	With extension	25-50 l/min
5	DO2921XX05002	Left	With extension	10-25 l/min
5	DO2921XX05005	Right	With extension	10-25 l/min
8	DO2921XX08002	Left	With extension	10-25 l/min
8	DO2921XX08000	Left	With extension	25-50 l/min
8	DO2921XX08003	Right	With extension	25-50 l/min
8	DO2921XX08005	Right	With extension	10-25 l/min
10	DO2921XX10002	Left	With extension	10-25 l/min
10	DO2921XX10000	Left	With extension	25-50 l/min
10	DO2921XX10003	Right	With extension	25-50 l/min

10	DO2921XX10005	Right	With extension	10-25 l/min
23	DO2921XX23000	Left	With extension	25-50 l/min
7	DO2921XX07000	Left	With extension	25-50 l/min
70	DO2921XX70001	Left	With extension	25-50 l/min
1	DO2921XX01006	Left	With extension	10-25 l/min with controlled dump BYPY INC.
1	DO2921XX01007	Left	With extension	25-50 l/min with open By-pass
1	DO2921XX01008	Left	With extension	Traverse
1	DO2921XX01009	Left	With extension	8-20 l/min
17	DO2921XX17001	Left	With extension	25-50 l/min
3	DO2921XX03007	Right	Without extension	For M10-M8 follower FALCONERO
RF	DO2929999149	Left	With extension	Per RF ICAR MAFIX BYPY GmbH
25	DO2921XX25000	Left	With extension	Always open by-pass BYPY CHINA
70	DO2922XX70000	Left	With extension	25-50 l/min with cone on by-pass
70	DO2922XX70001	Left	With extension	25-50 l/min with controlled dump
consenso	DO2929999156	Left	With extension	

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**Spool characteristics**

Spools for circuit 1, 3, 4, 5, 8 and 10 are metering optimized for flow ranges of 10-25 l/min and 25-50 l/min. If spools for 10-25 l/min nominal flow are used at a higher flow rate, main relief valve will open during the exchange step. Opposite, using a spool for nominal flow of 25-50 l/min with lower flow rate, will compromise the metering bend. NOTE: Spools are designed in order to optimize metering bend, and generate an increase of pressure during the exchange step.

Peak of pressure produced is approximately 120-130 bar at 25 l/min for a 10-25 l/min spool and at 50 l/min for a 25-50 l/min spool.

Note: characteristic bends of spools circuit 3-4-5-8-10 are the same as circuit 1 for respective flow ranges.

Spools circuit 1 and 3 differ for the neutral position, where circuit 1 has the user ports closed, while circuit 3 has the user ports connected to the tank line.

Circuits 4 and 5, called "simple acting", work respectively only with port A (circ 4) and port B (circ 5).

Circuits 8 and 10 have, in neutral position, respectively port A and port B connected to the tank line.

Circuits 7 and 70 have a fourth position where by-pass is opened and ports A and B are connected to the tank line. This position is obtained pulling the actuator lever with circuit 70 and pushing the lever with circuit 7.

Circuit 23, called "regenerative", differs from circuit 1 for an intermediate position, where users A and B are simultaneously connected to the P line.

Circuit 17 has the same functionality as circuit 1, but with a fourth position called "regenerative" where the two ports are connected to the P and by-pass is closed.

**Spools / spool controls compatibility chart**

Circuit	A	B	C	D	E	F	H	L	NT	NS	PS	Q	R	S	SQ	TR
1	■	■	■	■	□	□	□	□	✗	✗	✗	■	■	■	■	✗
3	■	■	■	■	■	■	■	■	✗	✗	✗	□	■	■	■	✗
4	■	■	□	■	□	□	□	□	✗	✗	✗	□	□	□	■	✗
5	■	□	■	■	□	□	□	□	✗	✗	✗	□	□	□	■	✗
8	■	■	■	■	■	□	■	✗	✗	✗	✗	□	□	□	□	✗
10	■	■	■	■	□	■	✗	■	✗	✗	✗	□	□	□	□	✗
7	✗	✗	✗	✗	✗	✗	✗	✗	✗	■	■	✗	✗	✗	✗	✗
23	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	■
70	✗	✗	✗	✗	✗	✗	✗	✗	■	✗	✗	✗	✗	✗	✗	✗

Legend: ■ = available □ = not advised ✗ = not available

**Table of compatibility special spool / spool controls**

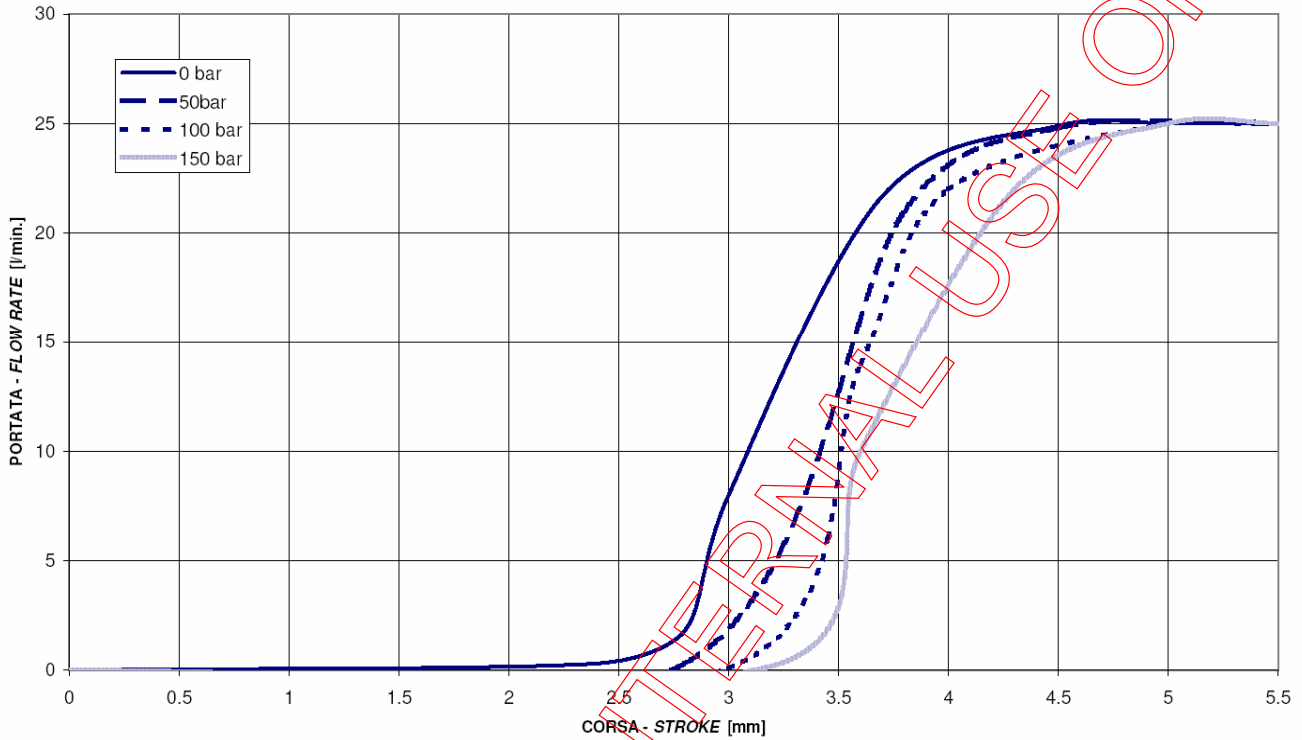
Circuit	A	AD	B	C	D	E	F	H	L	NT	NS	PS	PN	Q	R	S	CPT	SQ	TR	T	D 4.5 mm
17	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	■	✗	✗	✗	✗	✗	■	■	✗
25	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	■

Legend: ■ = available □ = not advised ✗ = not available

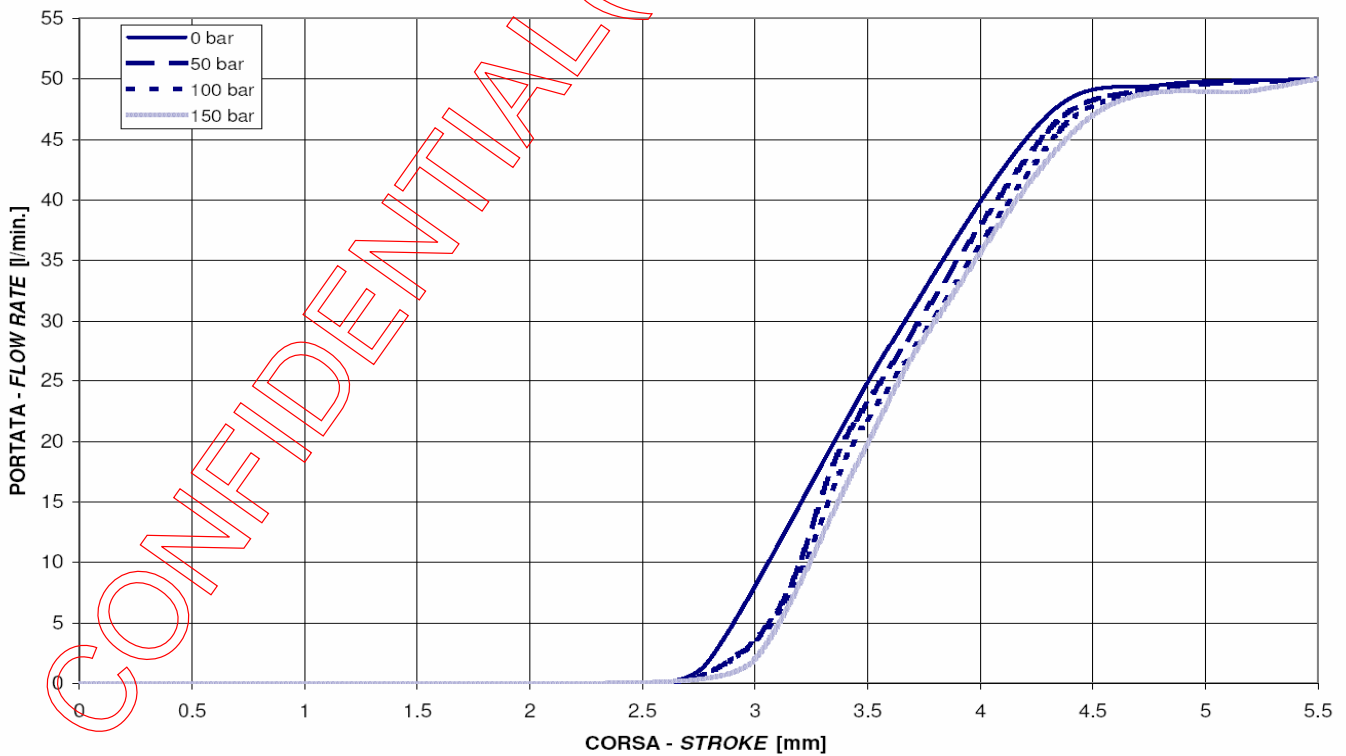


**Spool features**

CORSA-PORTATA - STROKE-FLOW RATE (SPOLA-SPOOL 2921XX01000) - 21cSt



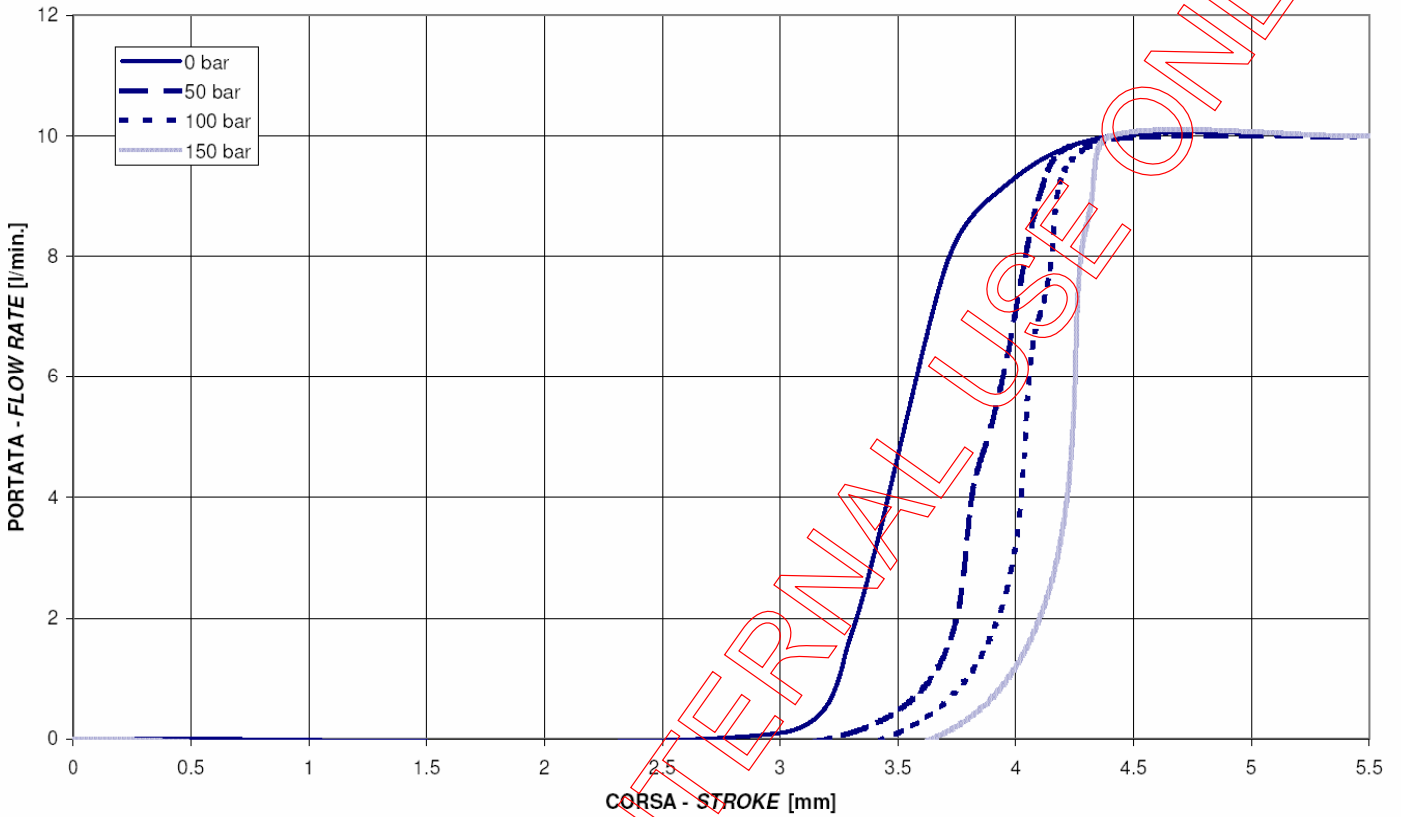
CORSA-PORTATA - STROKE-FLOW RATE (SPOLA-SPOOL 2921XX01000) - 21 cSt



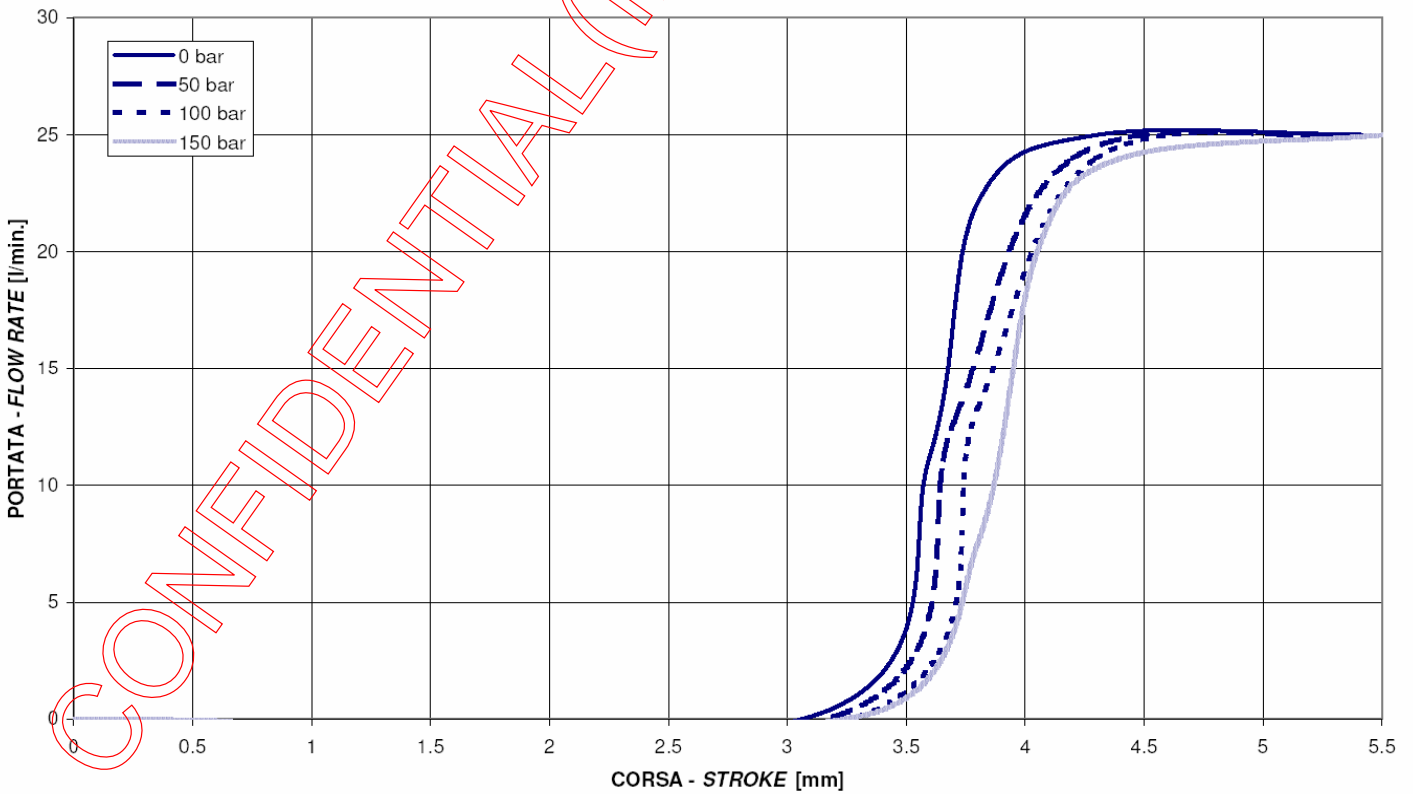




CORSA-PORTATA - STROKE-FLOW RATE (SPOLA-SPOOL 2921XX01002) - 21cSt

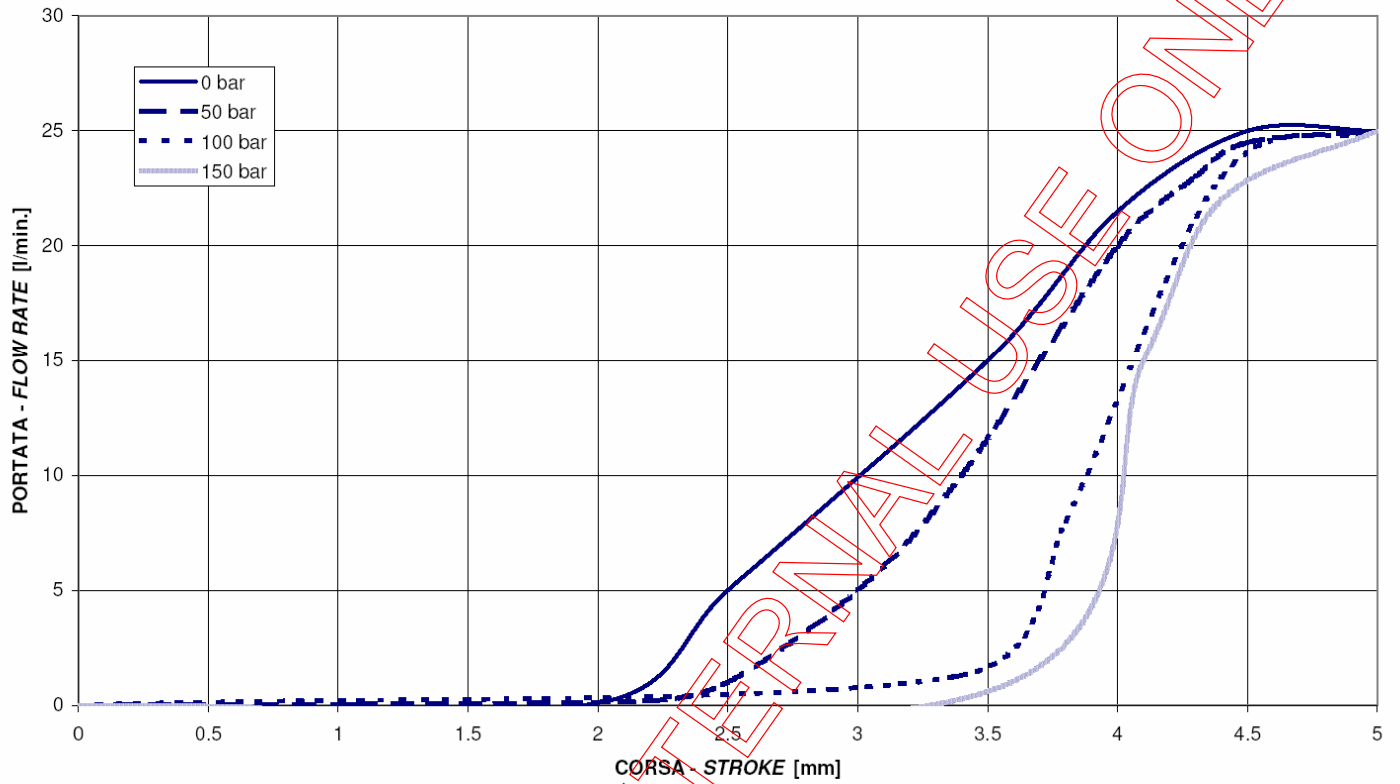


CORSA-PORTATA - STROKE-FLOW RATE (SPOLA-SPOOL 2921XX01002) - 21cSt

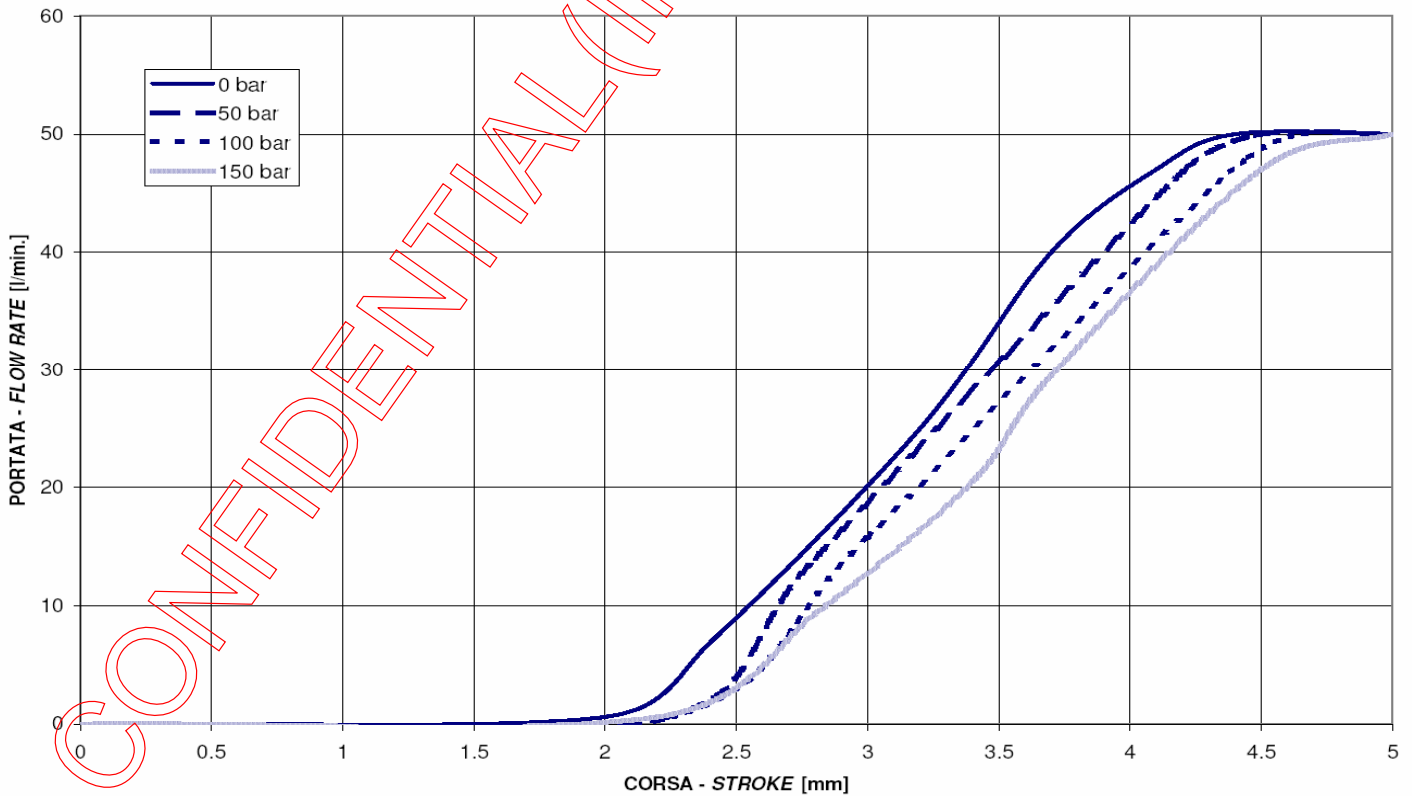




CORSA-PORTATA - STROKE-FLOW RATE (SPOLA-SPOOL 2921XX70001) - 21 cSt



CORSA-PORTATA - STROKE-FLOW RATE (SPOLA-SPOOL 2921XX70001) - 21 cSt



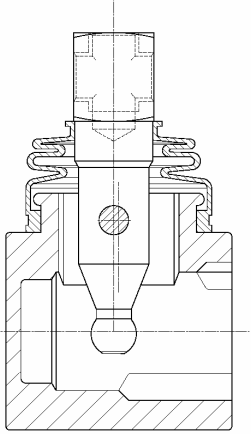


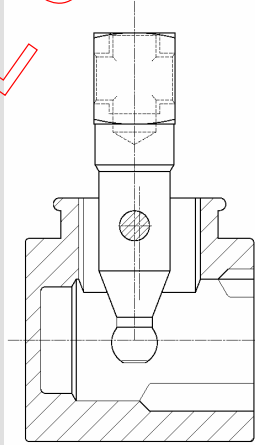
**VI**

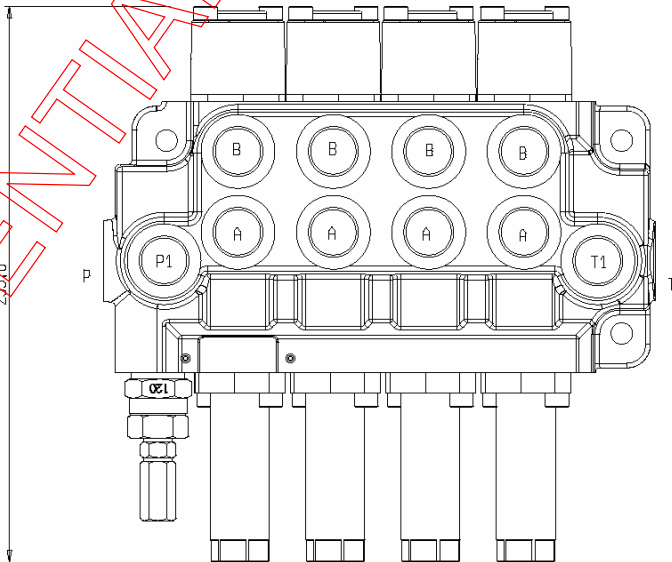
**Actuators on lever side**

**Ordering instructions**

DN3	C	Z (180)	A	1	L					
I	II	III	IV	V	VI	VII	VIII	IX	X	XI

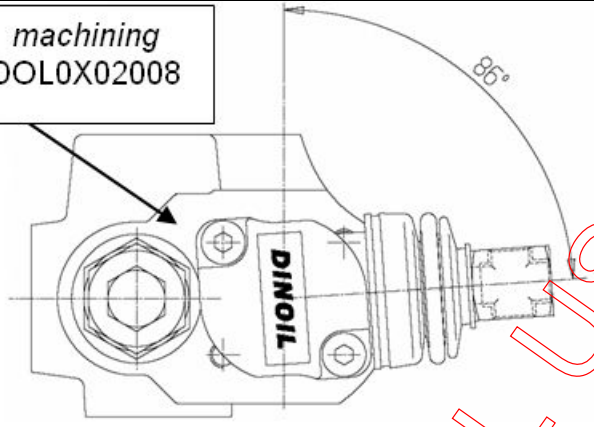
<b>L</b>	DO57010223 <i>Standard lever kit</i>
	

	DO57010240 <i>Lever kit without rubber boot</i>
	

<b>TCF</b>	DO74508212053 <i>Kit for cable control on lever side</i>
	

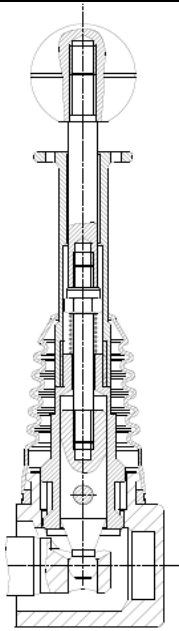
T side rotated lever

machining  
DOL0X02008



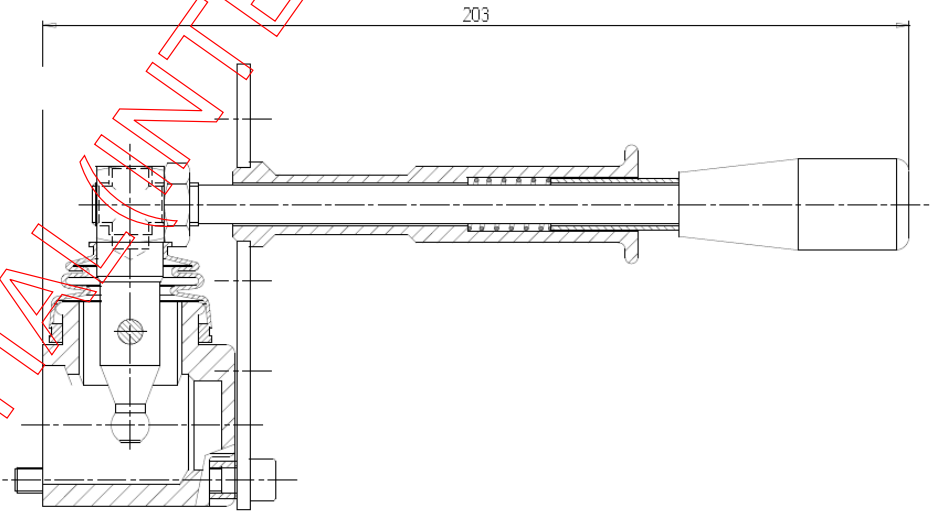
LI

DO54040002  
Vertical intentional lever



LIPO

DO54040003  
Horizontal intentional lever

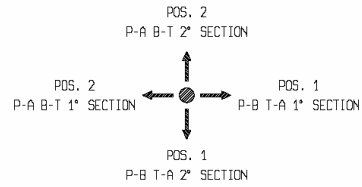
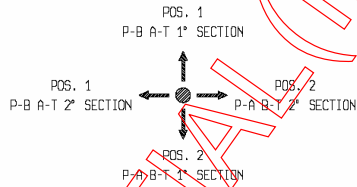
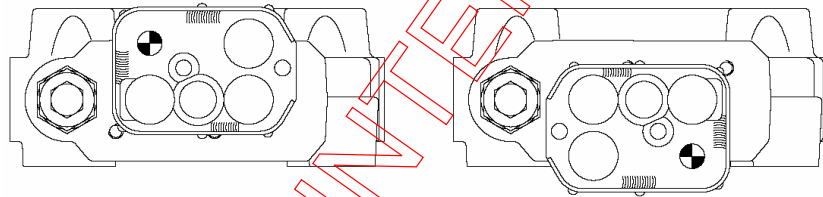
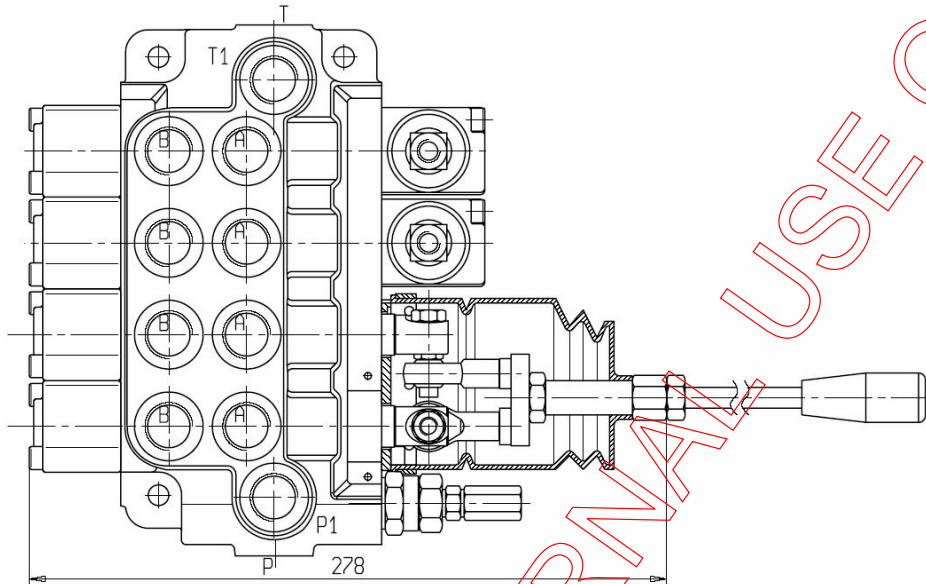




MAN (+)

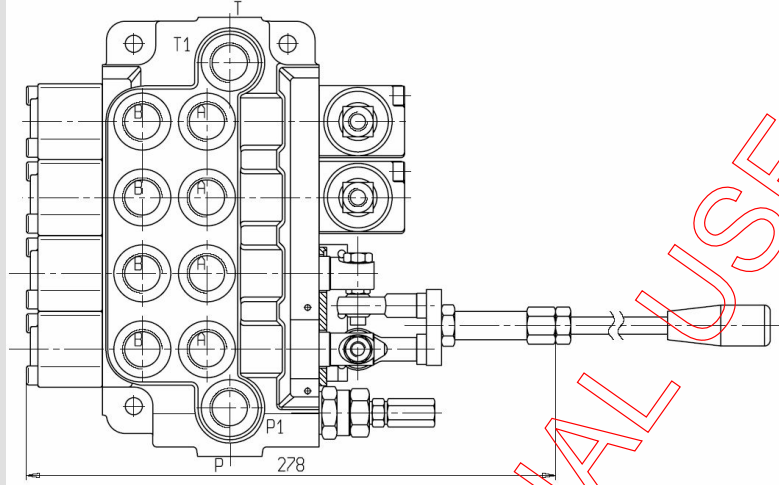
DO55514008

Joystick (+)

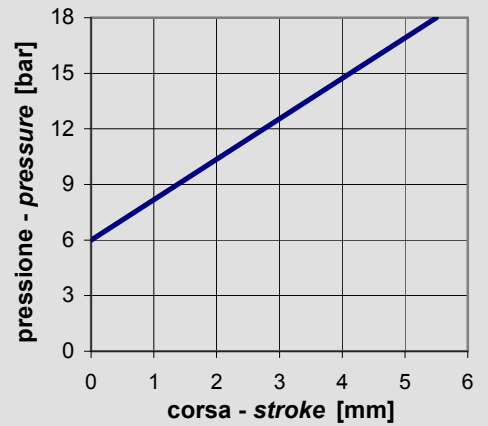
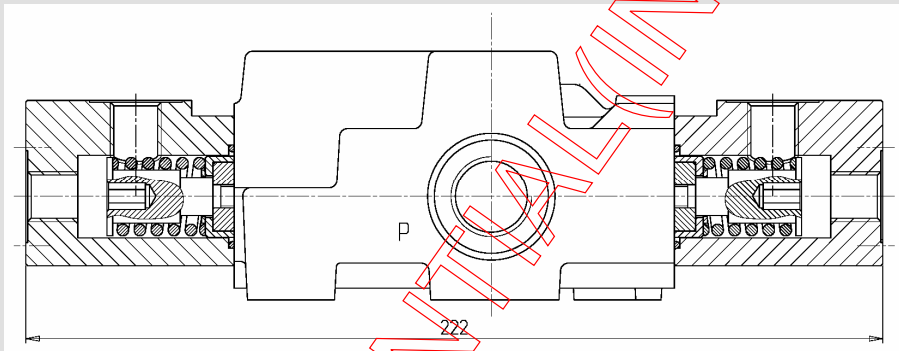


*Note: Joystick “+” can move only one section at a time, moving the lever along the axis. It can be used with every available circuit, as it's predisposed for floating position.*

<b>MAN (+)</b>	<p>DO5514012</p> <p><i>Joystick without rubber boot (+)</i></p>
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<b>K</b>	<p>DO5XH15540001</p> <p><i>Hydraulic actuators</i></p>
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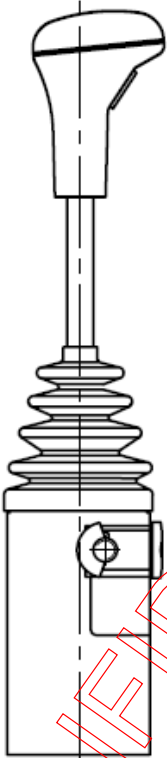


**Special actuators on lever side**

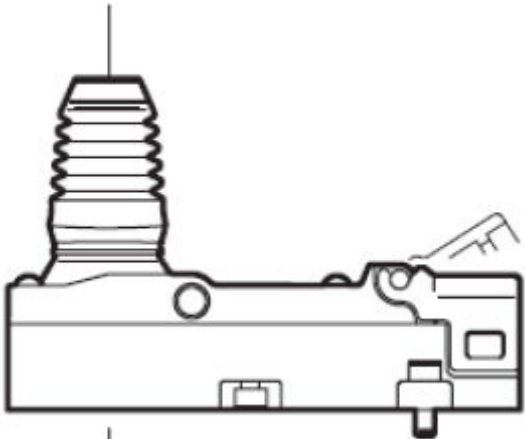
Joystick (+) with upper right fulcrum (BYPY FRANCIA, CERMAG)	DO55514001
Joystick (+) with upper right fulcrum, without rubber boot and column (BYPY IBERICA)	DO55514011
Lever kit for front extension (BYPY FRANCIA, BALLARIO)	DO57012703
Lever kit anonymous (AMA)	DO57010224
Lever kit Vapormatic (MHS)	DO57010226
Spool actuator cap with front extension (AMA)	DO5753702
Spool actuator cap with plugged hole (BYPY FRANCIA)	DO27711020117

**Actuators for cable control**

DO775---  
Dual axis joystick for cable control



DO790---  
Single axis joystick for cable control



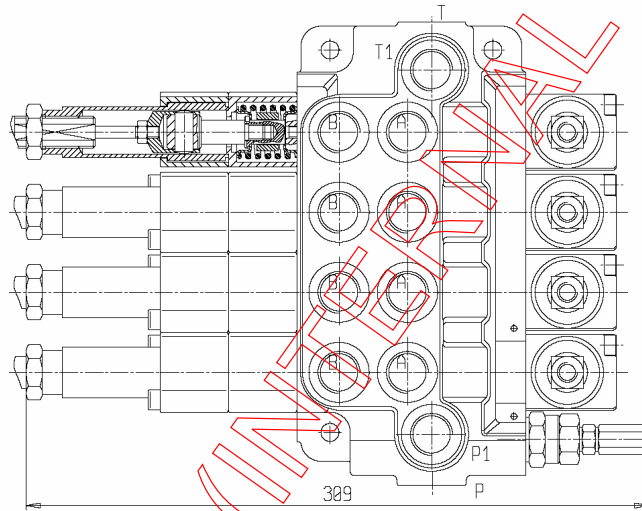
**VII**

**Actuators on spool control side**

**Ordering instructions**

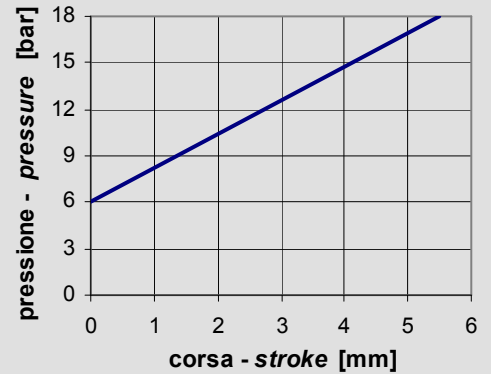
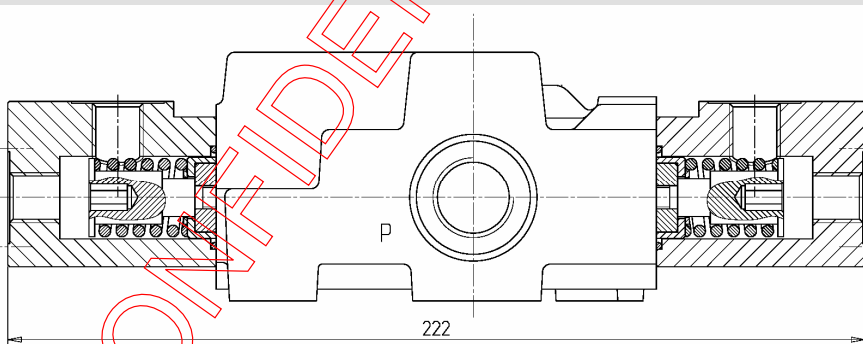
DN3	C	Z (180)	A	1	L	TCF				
I	II	III	IV	V	VI	VII	VIII	IX	X	XI

<b>TCF</b>	DO580550A55 <i>Cable control on spool control side</i>
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Note: hydraulic, electro hydraulic, pneumatic and electro pneumatic actuators are incompatible with 4 position spools

<b>K</b>	DO5XH15540001 <i>Hydraulic actuator</i>
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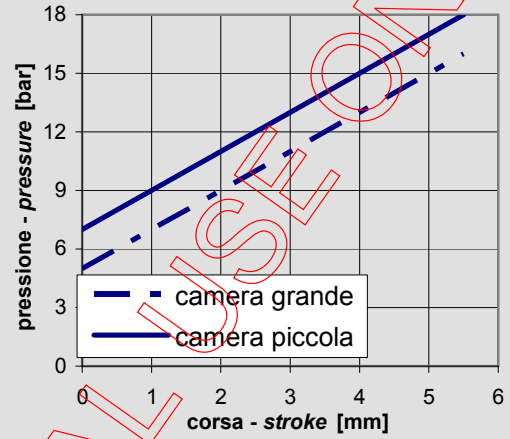
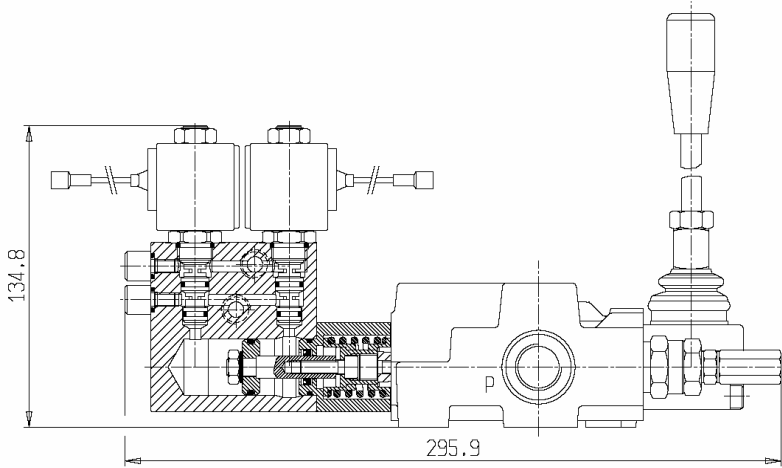




EH

DO51540010-10 (DO580550A07 spool control)

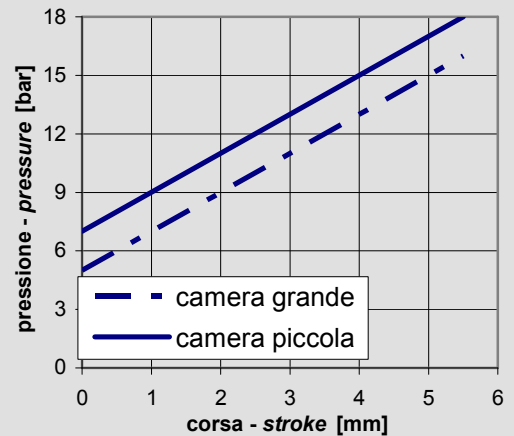
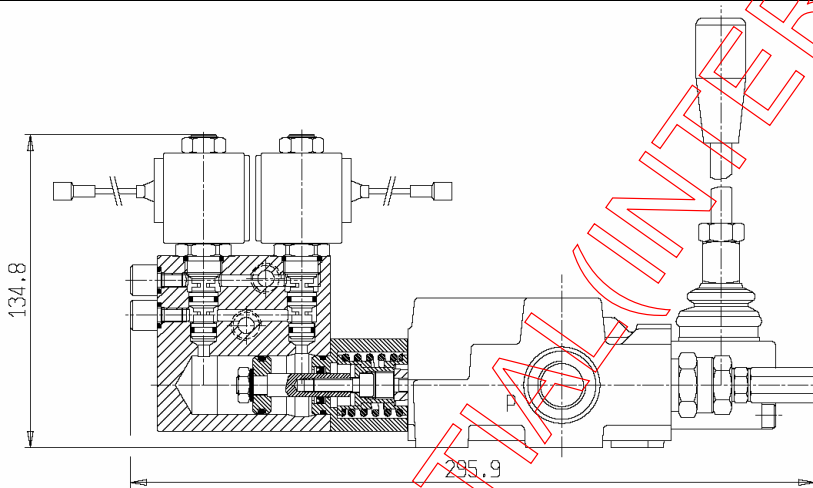
For single section electro hydraulic actuators

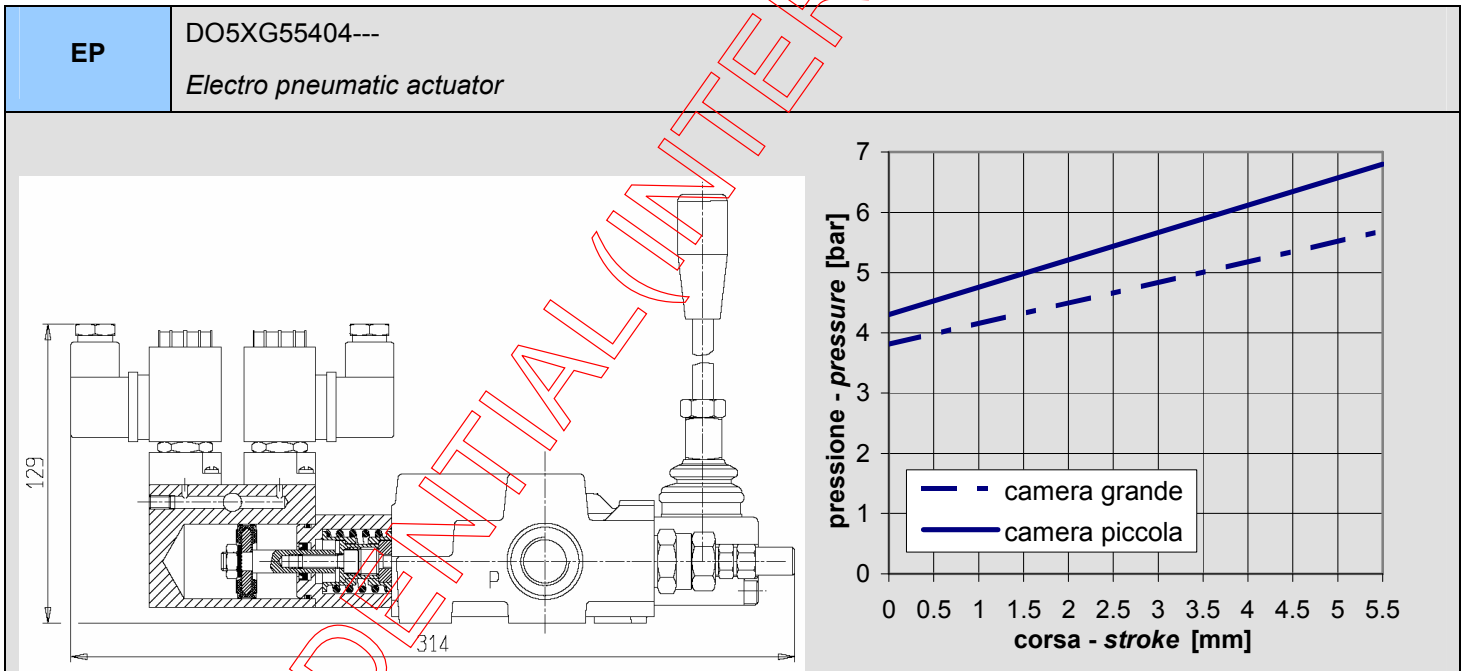
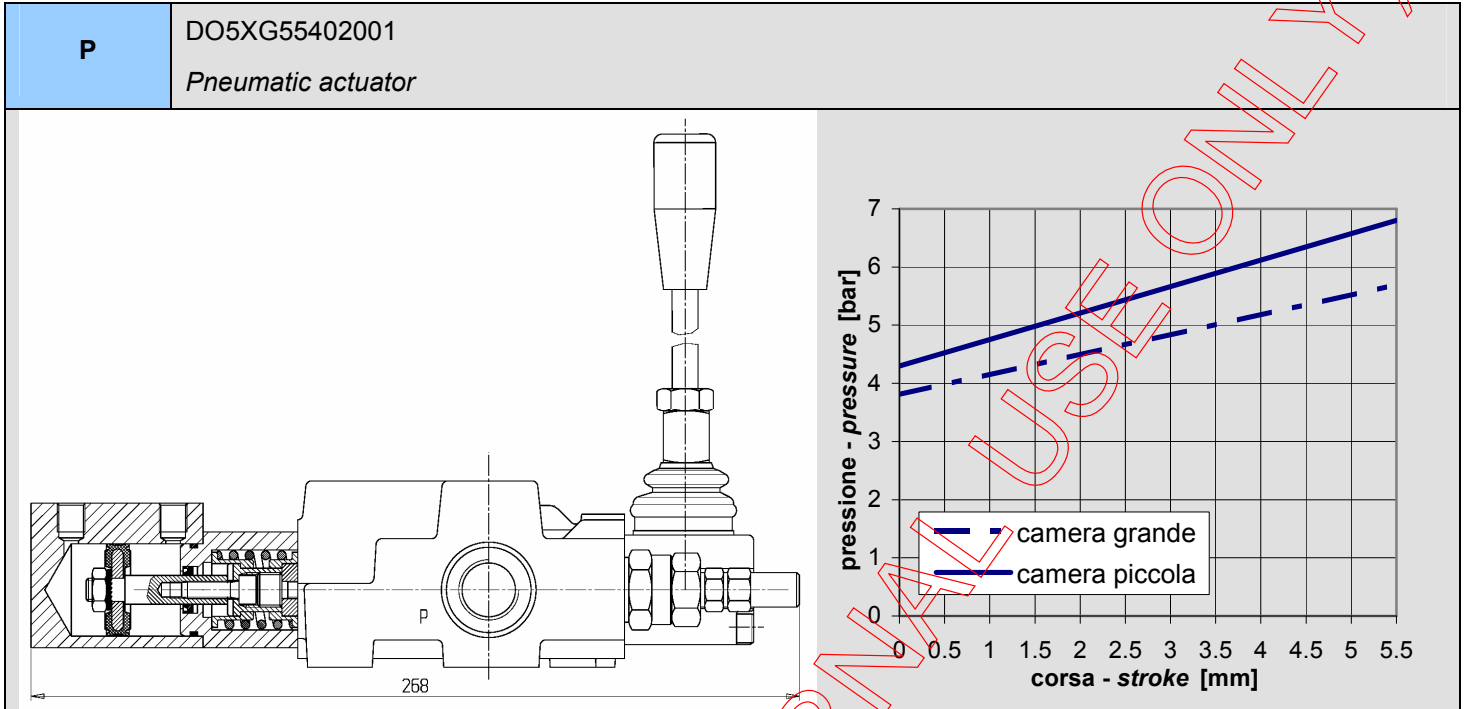


EH

DO51540020-10 (DO580550A07 spool control)

For double section electro hydraulic actuators





**Special actuators on spool control side**

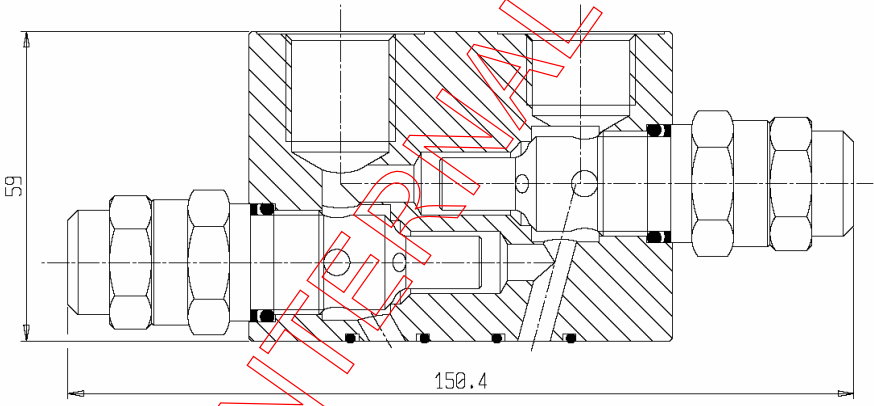
Pneumatic actuator for micro kit	DO5XG55402002
Hydraulic proportional control	DO5XH15540001
Electro hydraulic actuator with Viton OR	DO51540010121

**VIII**

**Port auxiliary valves**

**Ordering instructions**

DN3	C	Z (180)	A	1	L	TCF	<b>VLAB</b>			
I	II	III	IV	V	VI	VII	VIII	IX	X	XI

<b>Ordering code</b>	DOVBHLP--- <i>Upper-located block with limiter cartridge</i>
<b>VLA</b>	
<b>VLB</b>	
<b>VLAB</b>	

NOTE: with VL and VB predisposition, 1/2G and 3/4 -16 SAE threads on A-B-P1-T1 are not possible.



**IX**

**Following section**

**Ordering instructions**

<b>DN3</b>	<b>C</b>	<b>Z (180)</b>	<b>A</b>	<b>1</b>	<b>L</b>	<b>TCF</b>	<b>VLAB</b>	<b>A1L</b>		
I	II	III	IV	V	VI	VII	VIII	IX	X	XI

Repeat ordering instruction IV, V, VI for each section.

IV	V	VI
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**X**

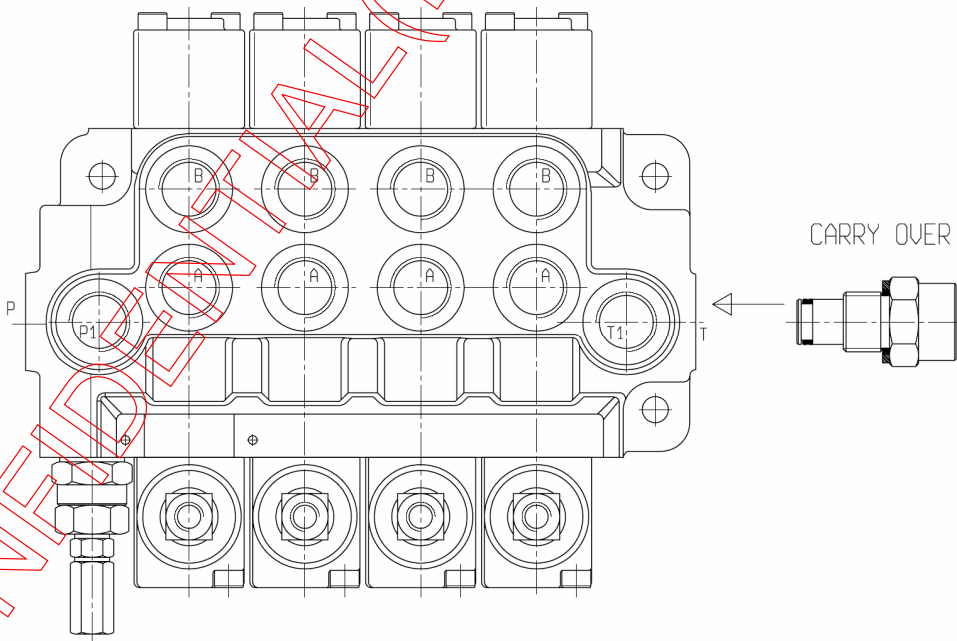
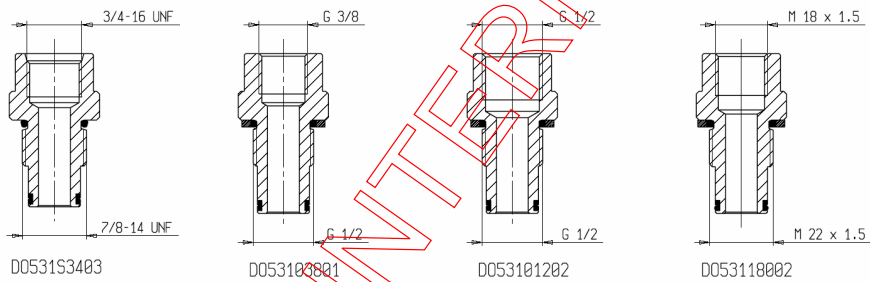
**Options on the T line**

**Ordering instructions**

DN3	C	Z (180)	A	1	L	TCF	VLAB	A1L	C.O.	
I	II	III	IV	V	VI	VII	VIII	IX	X	XI

**C.O. (power beyond)**

*All DN valves are carry over predisposed.*



Note: Carry over bushing is NOT interchangeable with previous versions.



**XI**


Type of P – T


Ordering instructions


DN3	C	Z (180)	A	1	L	TCF	VLAB	A1L	C.O.	PT
I	II	III	IV	V	VI	VII	VIII	IX	X	XI


<b>PT</b>	Port P and T open, port P1, T1 plugged
<b>P1T1</b>	Port P1 and T1 open, port P and T plugged
<b>PP1TT1</b>	Port P, P1, T, T1 open


**Levers**

DO5351---  <i>M10 Lever kit</i>		L (mm)	Lever code	254	535125002
		184	535118002	304	535130002
		84	535108002	354	535135002
		104	535110002	404	535140002
		109	535110502	454	535145002
		134	535113002	504	535150002
		154	535115002	604	535160002
		214	535121002	674	535167002

DO535199901	
<i>Ergonomic straight lever</i>	

DO535199912	
<i>Ergonomic 90° rotated straight lever</i>	

DO535199902	
<i>Ergonomic 15° bent lever</i>	

DO535199903	
<i>Ergonomic 30° bent lever</i>	

**Special levers**

60° bended lever at 40 mm (OILTEK)	DO535118009
Lever kit vapomatic (MHS)	DO535418002
15° bended lever at 45 mm (NILFISK)	DO535118024

**Accessories**

Cap for standard main relief valve sealing	DO23101002
Handweel 1050 with 6 lobes (STROMAB)	DO392010040
RF cartridge	DOWSR00M20010
Kit VNR	DOWUS00140000

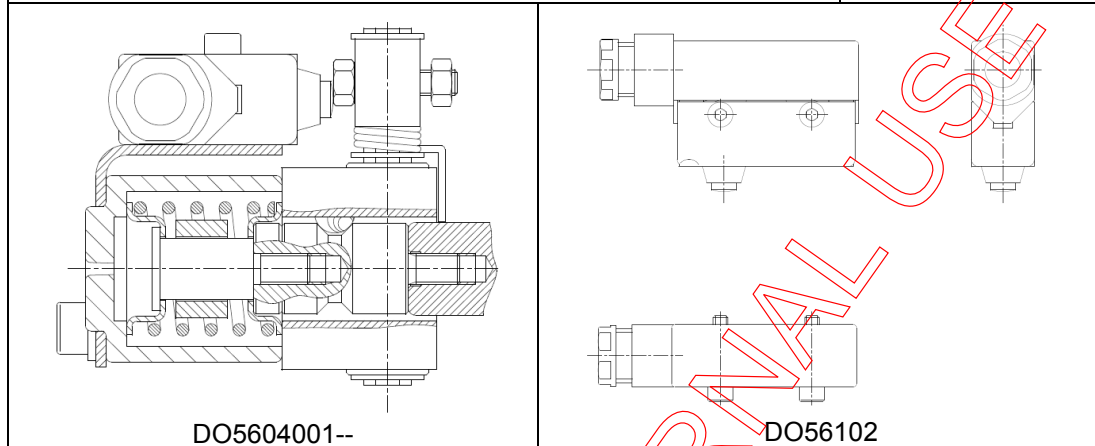
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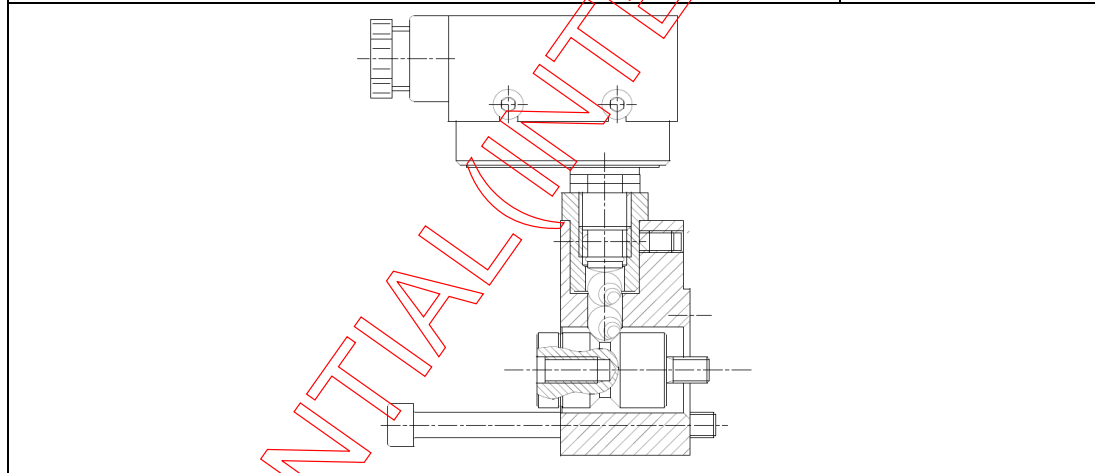


**Centralized micro kit**

<i>for three sections</i>	5604003-- + 56102
<i>for four sections</i>	5604004-- + 56102
<i>for five sections</i>	5604005-- + 56102
<i>for six sections</i>	5604006-- + 56102



<i>Single section micro kit, p. 40 mm , stroke 5,5 mm</i>	561--02
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**Standard machining**

Code	Description
L0X01001	Standard circuit machining
L0X02008	4 hole machining
L0X02001 (*)	Machining for VL upper located
L0X02007 (*)	Machining for VLA lower located
L0X02002 (*)	Machining for VLB lower located
L0X02006	Machining for carry over 1/2 G
L0X02009	Machining for carry over 7/8-14 SAE
L0X02012	Machining for carry over M22 x 1.5
L0X01003	Machining for circuit 17
L0X02010 (*)	Machining for P3T3
L0X02003 (**)	Machining for RF (excluded 1° sect.)
L0X02004 (**)	Machining for RF for 1° sect.
L0X02005 (**)	Machining for intermediate VNR
L0X02011 (**)	Mac.VLA lower located (VMP side) AUDUREAU

(\*) only for reinforced DN (4X---01)

**Semi-finished products**

Code	Description
4X---	Machined DN
4X---01	Reinforced DN
4X4BBABBBWNN001	DN/4 G 3/8 with PP1TT1 1/2G (EGIL ENG)

- (\*) Incompatible with carry over machining  
 (\*\*) Only for reinforced DN 4X---01  
 (\*\*\*) 1/2G and 3/4-16 UNF threads not possible on A-B-P-P1-T1

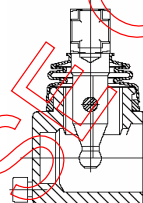
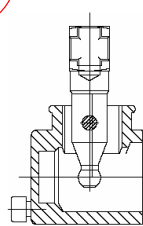
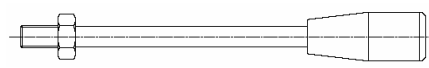
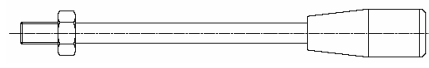
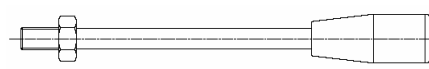
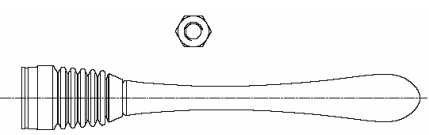
INCOMPATIBLE DN MACHINING

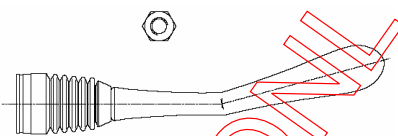
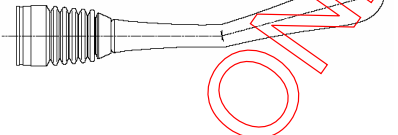
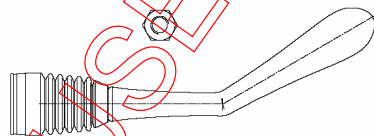
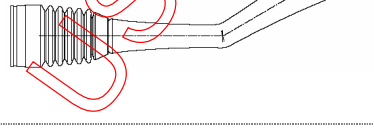
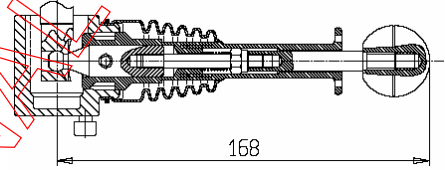
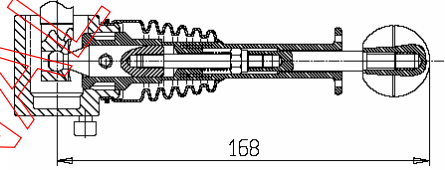
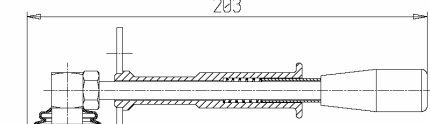
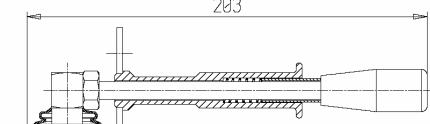
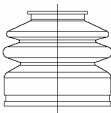
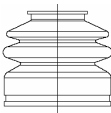
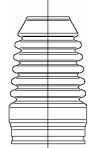
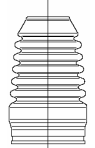
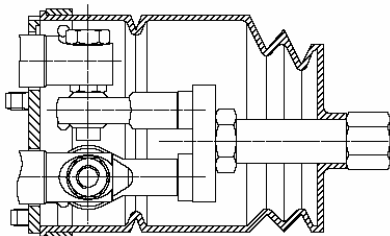
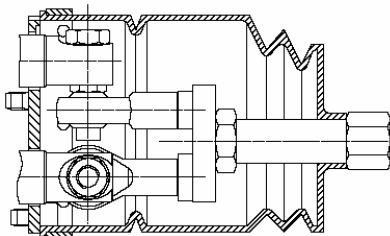
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L0X02008	■	-	■	■	■	■	■	■
L0X02001	■	■	-	X	X	■	■	■
L0X02007	■	■	X	-	X	■	■	■
L0X02002	■	■	X	X	-	■	■	■
L0X02006	■	■	■	■	■		X	X
L0X02009	■	■	■	■	■	X	-	X
L0X02012	■	■	■	■	■	X	X	-

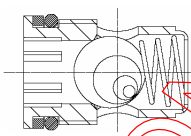
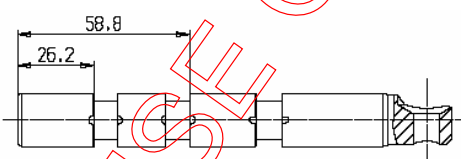
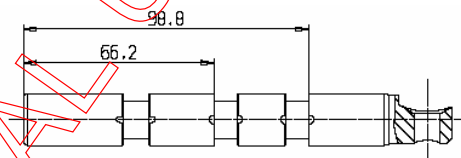
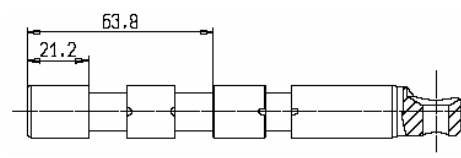
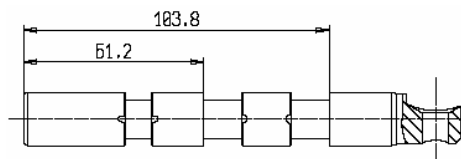
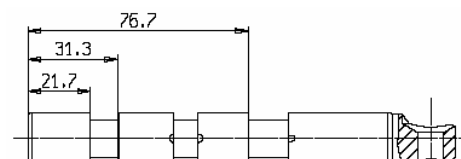
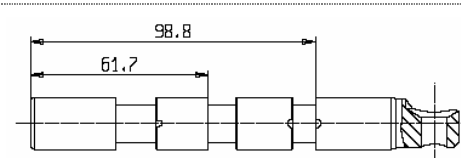
Legend: ■ = available    x = not available    above incompatibilities are meant for each section

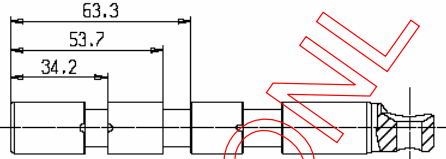
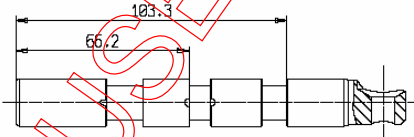
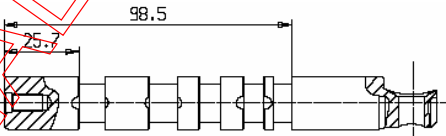
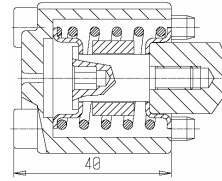
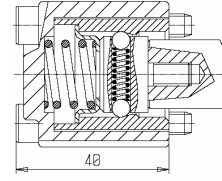
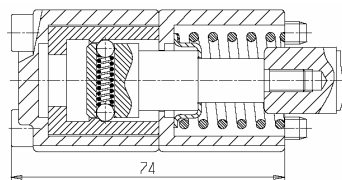
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## Spare part list

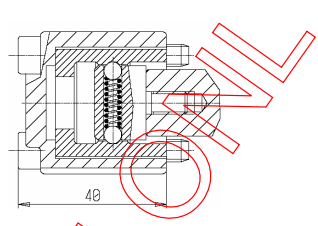
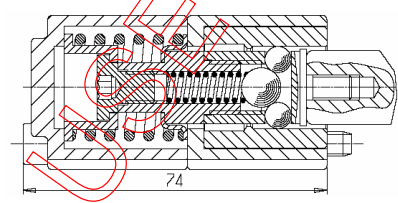
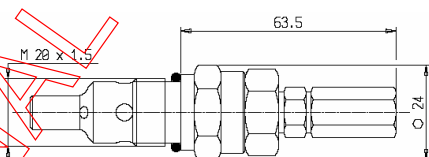
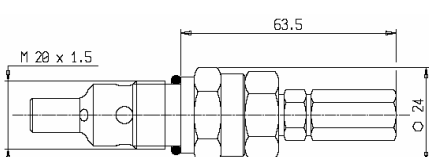
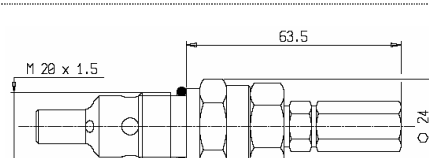
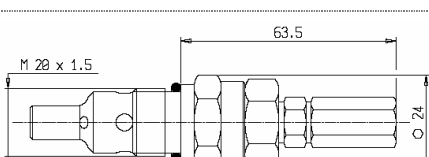
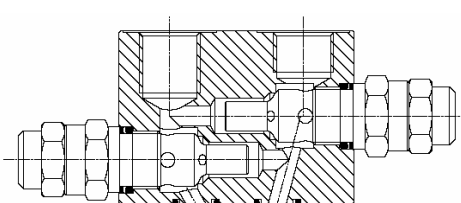
Codice Code	Descrizione Description	Disegno sezione Sectional view
DO57010223R	N°1 Portaleva con viti cod. DO57010223	
DO57010223R10	N°10 Housing lever with screws cod. DO57010223 Kit N°10 Portaleva con viti cod. DO57010223 Kit N°10 Housing lever with screws cod. DO57010223	
DO57010240R10	N°1 Portaleva per leve ergonomiche con viti cod. DO57010240	
DO57010240R10	N°1 Housing lever with screws for ergonomic levers cod. DO57010240 Kit N°10 Portaleva per leve ergonomiche con viti cod. DO57010240 Kit N°10 Housing lever with screws for ergonomic levers cod. DO57010240	
DO535118002R20	N° 1 Leva M10 x 180 mm cod. DO535118002	
DO535118002R20	N° 1 Lever M10 x 180 mm cod. DO535118002 Kit N°20 Leve M10 x 180 mm cod. DO535118002 Kit N°20 Levers M10 x 180 mm cod. DO535118002	
DO535113002R	N° 1 Leva M10 x 130 mm cod. DO535113002	
DO535113002R20	N° 1 Lever M10 x 130 mm cod. DO535113002 Kit N°20 Leve M10 x 130 mm cod. DO535113002 Kit N°20 Levers M10 x 130 mm cod. DO535113002	
DO535125002R20	Kit N°20 Leve M10 x 250 mm cod. DO535125002 Kit N°20 Levers M10 x 250 mm cod. DO535125002	
DO535199901R	N° 1 Leva erg. Dritta cod. DO535199901	
DO535199901R20	N° 1 Erg. Straight lever cod. DO535199901 Kit N°20 Leve erg. Dritte cod. DO535199901 Kit N°20 Erg. Straight levers cod. DO535199901	

DO535199902R	N° 1 Leva erg. Piegata 15° cod. DO535199902 N° 1 Erg. 15° bent lever cod. DO535199902	
DO535199902R20	Kit N°20 Leve erg. Piegate 15° cod. DO535199902 Kit N°20 Erg. 15° bent levers cod. DO535199902	
DO535199903R	N° 1 Leva erg. Piegata 30° cod. DO535199903 N° 1 Erg. 30° bent lever cod. DO535199903	
DO535199903R20	Kit N°20 Leve erg. Piegate 30° cod. DO535199903 Kit N°20 Erg. 30° bent levers cod. DO535199903	
DO54040002R	Kit N° 1Leva intenzionale con viti cod. DO54040002 Kit N° 1 Intentional lever with screws cod. DO54040002	
DO54040002R10	Kit N°10 Leve intenzionali con viti cod. DO54040002 Kit N°10 Intentional levers with screws cod. DO54040002	
DO54040003R	Kit N° 1 Leva intenzionale con viti cod. DO54040003 Kit N° 1 Intentional lever with screws cod. DO54040003	
DO54040003R10	Kit N°10 Leve intenzionali con viti cod. DO54040003 Kit N°10 Intentional levers with screws cod. DO54040003	
DO28602001R	N° 1 Soffietto per leva standard N° 1 Hood for standard lever	
DO28602001R20	Kit N° 20 Soffietti per leva standard Kit N° 20 Hoods for standard lever	
DO28602002R	N° 1 Soffietto per leva ergonomia N° 1 Hood for ergonomic lever	
DO28602002R20	Kit N° 20 Soffietti per leva ergonomia Kit N° 20 Hoods for ergonomic lever	
DO55514008R	Kit N° 1 Manipolatori cod. DO55514008 (da montare) Kit N° 1 Joystick cod. DO55514008 (to assemble)	
DO55514008R05	Kit N°5 Manipolatori cod. DO55514008 (da montare) Kit N°5 Joysticks cod. DO55514008 (to assemble)	

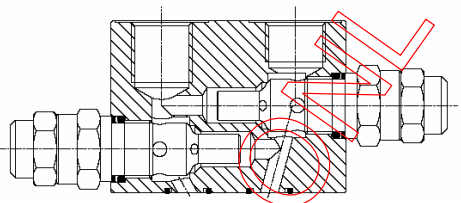
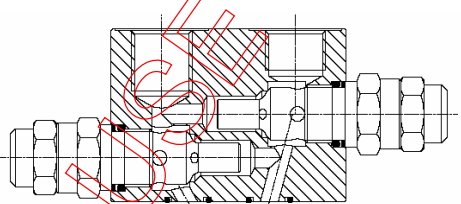
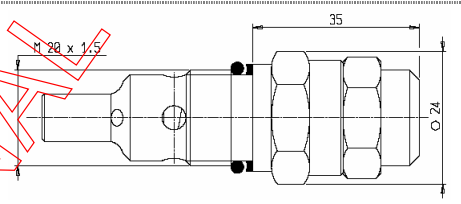
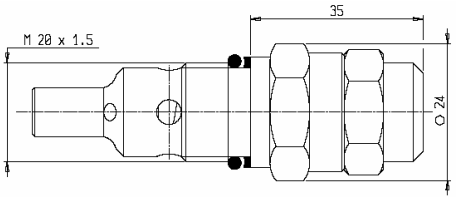
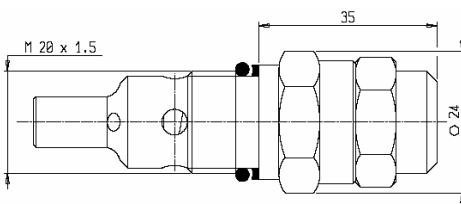
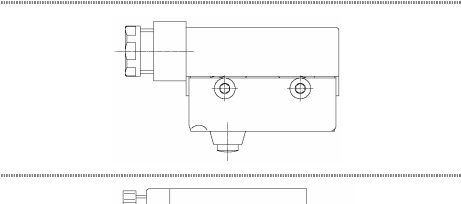
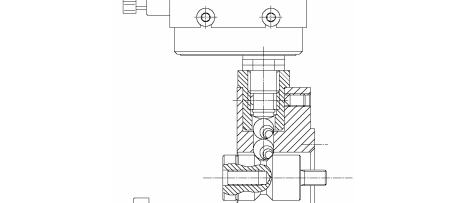
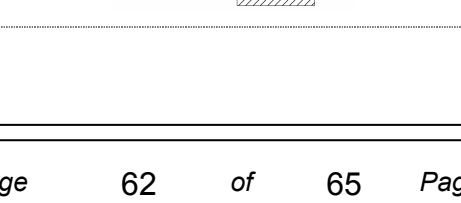

DOWUS00140000R	N° 1 VNR cod. DOWUS00140000	
DOWUS00140000R10	Kit N°10 VNR cod. DOWUS00140000	
DO2921XX01000R	N° 1 Spola d. 18 mm DN c.1 Entrata sinistra N° 1 Spool d.18 mm DN c.1 left inlet	
DO2921XX01000R05	Kit N°5 Spole d. 18 mm DN c.1 Entrata sinistra Kit N°5 Spools d.18 mm DN c.1 left inlet	
DO2921XX01003R	N° 1 Spola d. 18 mm DN c.1 Entrata destra N° 1 Spool d.18 mm DN c.1 right inlet	
DO2921XX01003R05	Kit N°5 Spole d. 18 mm DN c.1 Entrata destra Kit N°5 Spools d.18 mm DN c.1 right inlet	
DO2921XX03000R	N° 1 Spola d. 18 mm DN c.3 Entrata sinistra N° 1 Spool d.18 mm DN c.3 left inlet	
DO2921XX03000R05	Kit N°5 Spole d. 18 mm DN c.3 Entrata sinistra Kit N°5 Spools d.18 mm DN c.3 left inlet	
DO2921XX03003R	N° 1 Spola d. 18 mm DN c.3 Entrata destra N° 1 Spool d.18 mm DN c.3 right inlet	
DO2921XX03003R05	Kit N°5 Spole d. 18 mm DN c.3 Entrata destra Kit N°5 Spools d.18 mm DN c.3 right inlet	
DO2921XX04000R	N° 1 Spola d. 18 mm DN c.4 Entrata sinistra N° 1 Spool d.18 mm DN c.4 left inlet	
DO2921XX04000R05	Kit N°5 Spole d. 18 mm DN c.4 Entrata sinistra Kit N°5 Spools d.18 mm DN c.4 left inlet	
DO2921XX04003R	N° 1 Spole d. 18 mm DN c.4 Entrata destra N° 1 Spool d.18 mm DN c.4 right inlet	
DO2921XX04003R05	Kit N°5 Spole d. 18 mm DN c.4 Entrata destra Kit N°5 Spools d.18 mm DN c.4 right inlet	

DO2921XX05000R	N° 1 Spola d. 18 mm DN c.5 Entrata sinistra N° 1 Spool d.18 mm DN c.5 left inlet	
DO2921XX05000R05	Kit N°5 Spole d. 18 mm DN c.5 Entrata sinistra Kit N°5 Spools d.18 mm DN c.5 left inlet	
DO2921XX05003R	N° 1 Spola d. 18 mm DN c.5 entr. Dx N° 1 Spool d.18 mm DN c.5 right inlet	
DO2921XX05003R05	Kit N°5 Spole d. 18 mm DN c.5 entr. Dx Kit N°5 Spools d.18 mm DN c.5 right inlet	
DO2921XX70001R	N° 1 Spola d. 18 mm DN c.70 entr. Sx N° 1 Spool d.18 mm DN c.70 left inlet	
DO2921XX70001R05	Kit N°5 Spole d. 18 mm DN c.70 entr. Sx Kit N°5 Spools d.18 mm DN c.70 left inlet	
DO580550A39R	Kit N° 1 Posizionatore cod. DO580550A39 Kit N° 1 spool control cod. DO580550A39	
DO580550A39R10	Kit N°10 Posizionatori cod. DO580550A39 Kit N°10 spool controls cod. DO580550A39	
DO580550B07R	Kit N° 1 Posizionatore cod. DO580550B07 Kit N° 1 Spool control cod. DO580550B07	
DO580550B07R10	Kit N°10 Posizionatori cod. DO580550B07 Kit N°10 Spool controls cod. DO580550B07	
DO580550C08R	Kit N° 1 Posizionatore cod. DO580550C08 Kit N° 1 Spool control cod. DO580550C08	
DO580550C08R10	Kit N°10 Posizionatori cod. DO580550C08 Kit N°10 Spool controls cod. DO580550C08	



DO580550D01R	Kit N° 1 Posizionatore cod. DO580550D01 Kit N° 1 Spool control cod. DO580550D01	
DO580550D01R10	Kit N°10 Posizionatori cod. DO580550D01 Kit N°10 Spool controls cod. DO580550D01	
DO580550N20R	Kit N° 1 Posizionatore cod. DO580550N20 Kit N° 1 Spool control cod. DO580550N20	
DO580550N20R10	Kit N°10 Posizionatori cod. DO580550N20 Kit N°10 Spool controls cod. DO580550N20	
DOWPD02M20080R	N° 1 Cartuccia VMP dir. A grano X 80 bar N° 1 Dir. Cartridge VMP grain X 80 bar	
DOWPD02M20080R05	Kit N°5 Cartucce VMP dir. A grano X 80 bar Kit N°5 Dir. Cartridges VMP grain X 80 bar	
DOWPD02M20130R	N° 1 Cartuccia VMP dir. A grano Y 130 bar N° 1 Dir. Cartridge VMP grain Y 130 bar	
DOWPD02M20130R05	Kit N°5 Cartucce VMP dir. A grano Y 130 bar Kit N°5 Dir. Cartridges VMP grain Y 130 bar	
DOWPD02M20180R	N° 1 Cartuccia VMP dir. A grano Z 180 bar N° 1 Dir. Cartridge VMP grain Z 180 bar	
DOWPD02M20180R05	Kit N°5 Cartucce VMP dir. A grano Z 180 bar Kit N°5 Dir. Cartridges VMP grain Z 180 bar	
DOWPD02M20210APR	N° 1 Cartuccia VMP dir. A grano K 210 bar N° 1 Dir. Cartridge VMP grain K 210 bar	
DOWPD02M20210APR05	Kit N°5 Cartucce VMP dir. A grano K 210 bar Kit N°5 Dir. Cartridges VMP grain K 210 bar	
DOVBHLP038080R	N° 1 VL tar. 80 bar 3/8G N° 1 VL set. 80 bar 3/8G	
DOVBHLP03880R10	Kit N°10 VL tar. 80 bar 3/8G Kit N°10 VL set. 80 bar 3/8G	

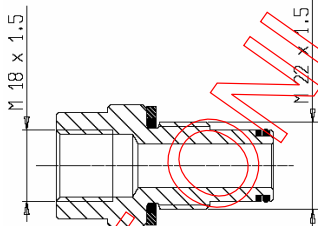


DOVBHLP038130R	N° 1 VL tar. 130 bar 3/8G N° 1 VL set. 130 bar 3/8G	
DOVBHLP038130R10	Kit N°10 VL tar. 130 bar 3/8G Kit N°10 VL set. 130 bar 3/8G	
DOVBHLP038180R	N° 1 VL tar. 180 bar 3/8G N° 1 VL set. 180 bar 3/8G	
DOVBHLP038180R10	Kit N°10 VL tar. 180 bar 3/8G Kit N°10 VL set. 180 bar 3/8G	
DOWPD12M20080R	N° 1 VL sovraubicata tar. 80 N° 1 VL upper located set. 80 bar	
DOWPD12M20080R10	Kit N°10 VL sovraubicata tar. 80 Kit N°10 VL upper located set. 80 bar	
DOWPD12M20130R	N° 1 VL sovraubicata tar. 130 N° 1 VL upper located set. 130 bar	
DOWPD12M20130R10	Kit N°10 VL sovraubicata tar. 130 Kit N°10 VL upper located set. 130 bar	
DOWPD12M20180R	N° 1 VL sovraubicata tar. 180 N° 1 VL upper located set. 180 bar	
DOWPD12M20180R10	Kit N°10 VL sovraubicata tar. 180 Kit N°10 VL upper located set. 180 bar	
DO56102R	Kit N° 1 Micro cod. DO56102	
DO56102R10	Kit N° 1 Micro cod. DO56102	
DO56112R	Kit N°1 Micro per singola sezione cod. DO56112 Kit N°1 Micro for single section cod. DO56112	
DO56112R10	Kit N°10 Micro per singola sezione cod. DO56112 Kit N°10 Micro for single section cod. DO56112	



DO526A05NN001R	Kit N°50 OR cod. DO350B17086NBR90 per VMP Kit N°50 OR cod. DO350B17086NBR90 for VMP	
DO526B05NN001R	Kit N°50 BR cod. DO315617 per VMP Kit N°50 BR cod. DO315617 for VMP	
DO526C06NN001R	Kit N°50 OR DO350B17086NBR90 (rif. A) + N°50 BR DO315617 (rif. B) per VL sovraucate DN Kit N°50 OR DO350B17086NBR90 (ref. A) + N°50 BR DO315617 (ref. B) for VL upper located for DN	
DO526C10NN001R	Kit N°50 OR DO350A11011NBR90 (rif. A) + N°50 BR DO315806 (rif. B) per VNR cod. DOWUS00140000 Kit N°50 OR DO350A11011NBR90 (ref. A) + N°50 BR DO315806 (ref. B) for VNR cod. DOWUS00140000	
DO526C11NN001R	Kit N°50 OR DO350A14000NBR70 (rif. A) + N°50 BR DO3188015 (rif. B) per kit C.O. DN Kit N°50 OR DO350A14000NBR70 (ref. A) + N°50 BR DO3188015 (ref. B) for DN C.O. kit	
DO531S3403R	N° 1 Kit C.O. DO531S3403 N° 1 C.O. kit DO531S3403	
DO531S3403R05	Kit N°5 Kit C.O. DO531S3403 Kit N°5 C.O. kit DO531S3403	
DO53101202R05	N°1 Kit C.O. DO53101202 N°1 C.O. kit DO53101202	
DO53101202R05	Kit N°5 Kit C.O. DO53101202 Kit N°5 C.O. kit DO53101202	



DO53118002R	N°1 Kit C.O. DO53118002 N°1 C.O. kit DO53118002	
DO53118002R05	Kit N°5 Kit C.O. DO53118002 Kit N°5 C.O. kit DO53118002	
DO526A03NN001R	Kit N°50 OR cod. DO350B17086NBR60 per spole D. 18 mm Kit N°50 OR cod. DO350B17086NBR60 for D. 18 mm spools	-

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